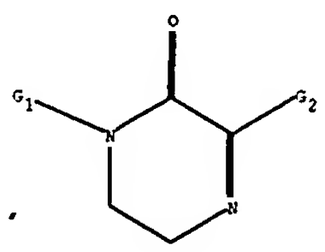
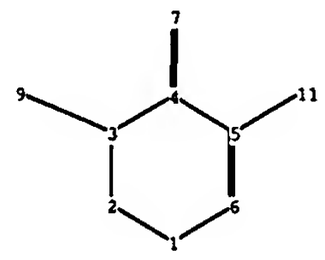
Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1438	(544/405).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L2	406	(544/408).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L3	0	(514/252.10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39
L4	59	Joseph.inv. and Armand.inv. and Picard.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:12
L5	327	(514/252.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1438	(544/405).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L2	406	(544/408).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:11
L3	0	(514/252.10).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39
L4	59	Joseph.inv. and Armand.inv. and Picard.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:12
L5	327	(514/252.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/12/18 17:39

C:\Program Files\Stnexp\Queries\10634713.str





chain nodes :
7 9 11
ring nodes :
1 2 3 4 5 6
chain bonds :
3-9 4-7 5-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 3-9 4-5 4-7 5-6 5-11
isolated ring systems :
containing 1 :

G1:C,O,S,N

G2:Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:CLASS 11:CLASS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS	4	OCT 03	MATHDI removed from STN
NEWS	5	OCT 04	CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS	6	OCT 13	New CAS Information Use Policies Effective October 17, 2005
NEWS	7	OCT 17	STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS	8	OCT 27	Free KWIC format extended in full-text databases
NEWS	9	OCT 27	DIOGENES content streamlined
NEWS	10	OCT 27	EPFULL enhanced with additional content
NEWS	11	NOV 14	CA/CAplus - Expanded coverage of German academic research
NEWS	12	NOV 30	REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data
NEWS	13	DEC 05	CASREACT(R) - Over 10 million reactions available
NEWS	14	DEC 14	2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS	15	DEC 14	2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS	16	DEC 14	CA/CAplus to be enhanced with updated IPC codes
NEWS	17	DEC 16	MARPATprev will be removed from STN on December 31, 2005

NEWS EXPRESS DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
http://download.cas.org/express/v8.0-Discover/

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NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

10/634,713

FILE 'HOME' ENTERED AT 16:47:48 ON 18 DEC 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:47:53 ON 18 DEC 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 DEC 2005 HIGHEST RN 870122-46-6
DICTIONARY FILE UPDATES: 16 DEC 2005 HIGHEST RN 870122-46-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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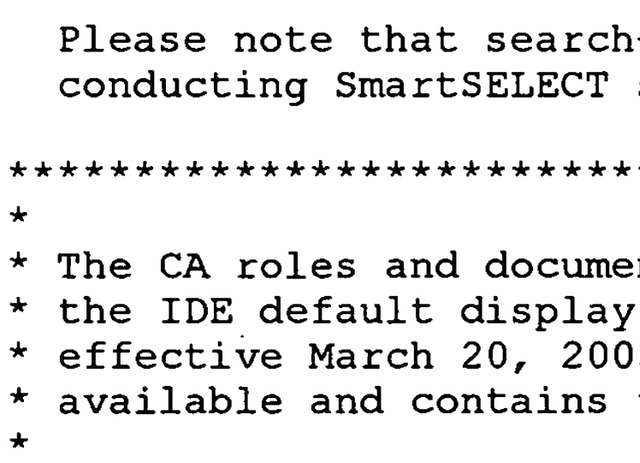
****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

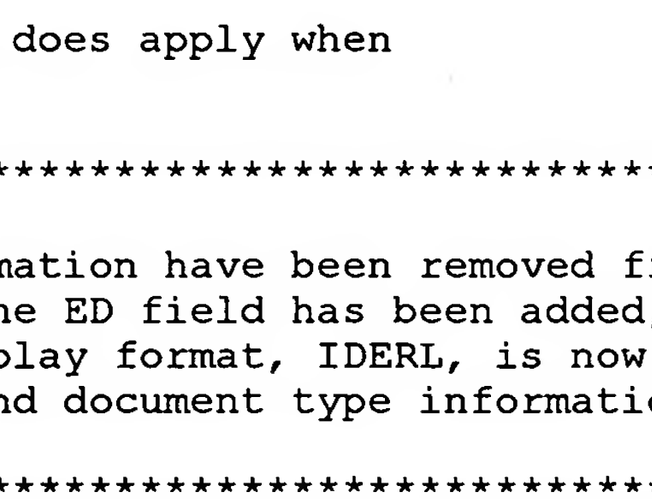
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10634713.str





chain nodes :
7 9 11
ring nodes :

```
1  2  3  4  5  6
chain bonds :
3-9  4-7  5-11
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
1-2  1-6  2-3  3-4  3-9  4-5  4-7  5-6  5-11
isolated ring systems :
containing 1 :


G1:C,O,S,N

G2:Cy,Ak

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:CLASS  11:CLASS
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L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                STR
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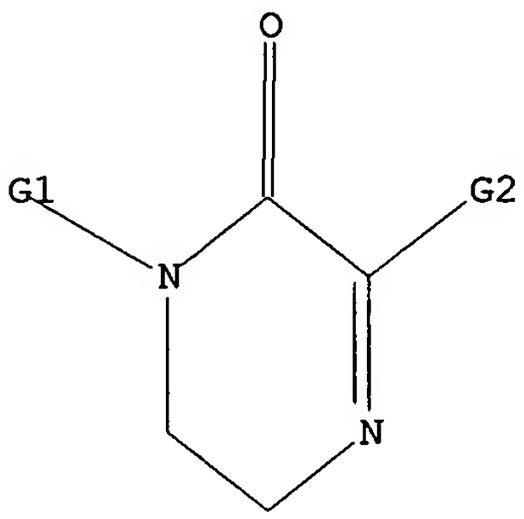


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G1 C,O,S,N

G2 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.


=> s l1 sss sam
SAMPLE SEARCH INITIATED 16:48:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     6424 TO ITERATE

 31.1% PROCESSED     2000 ITERATIONS                                 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       123675 TO   133285
PROJECTED ANSWERS:               1 TO      171

L2             1 SEA SSS SAM L1
```
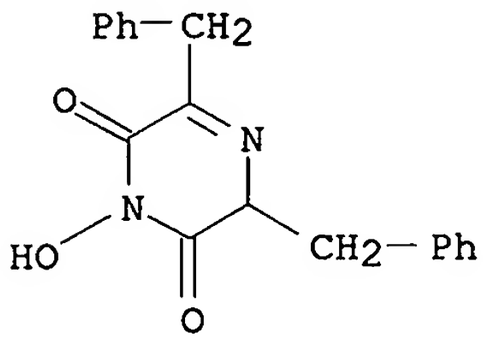

```
=> d scan

L2    1 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN    2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(phenylmethyl)- (9CI)
MF    C18 H16 N2 O3
```

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


ALL ANSWERS HAVE BEEN SCANNED


=> s l1 sss ful
FULL SEARCH INITIATED 16:48:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   128915 TO ITERATE

100.0% PROCESSED   128915 ITERATIONS                                59 ANSWERS
SEARCH TIME: 00.00.02

L3            59 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               161.76     161.97

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FILE LAST UPDATED: 16 Dec 2005  (20051216/ED)

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```

http://www.cas.org/infopolicy.html

```
=> s l3
L4          24 L3

=> d l4 1-24 bib hitstr

L4   ANSWER 1 OF 24  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2005:199486  CAPLUS
DN   142:441277
TI   QSAR for anti-RNA-virus activity, synthesis, and assay of anti-RSV
     carbonucleosides given a unified representation of spectral moments,
     quadratic, and topologic indices
AU   Gonzalez-Diaz, Humberto; Cruz-Monteagudo, Maykel; Vina, Dolores; Santana,
     Lourdes; Uriarte, Eugenio; De Clercq, Erik
CS   Department of Organic Chemistry, Faculty of Pharmacy, University of
     Santiago de Compostela, 15782, Spain
SO   Bioorganic & Medicinal Chemistry Letters (2005), 15(6), 1651-1657
     CODEN: BMCLE8; ISSN: 0960-894X
PB   Elsevier B.V.
DT   Journal
LA   English
IT   851070-89-8 851070-90-1 851070-91-2
     851070-92-3 851070-93-4 851070-94-5
     851070-95-6
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (QSAR for anti-RNA-virus activity, synthesis, and assay of anti-RSV
        carbonucleosides)
RN   851070-89-8  CAPLUS
CN   2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(2-methylpropyl)- (9CI)  (CA
     INDEX NAME)
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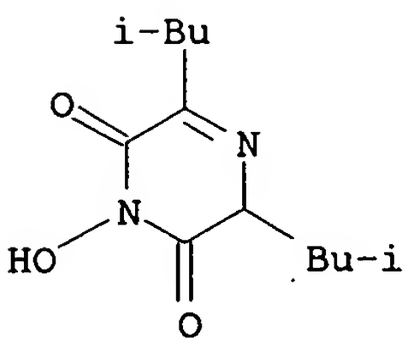


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RN   851070-90-1  CAPLUS
CN   2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis(phenylmethyl)- (9CI)  (CA
     INDEX NAME)
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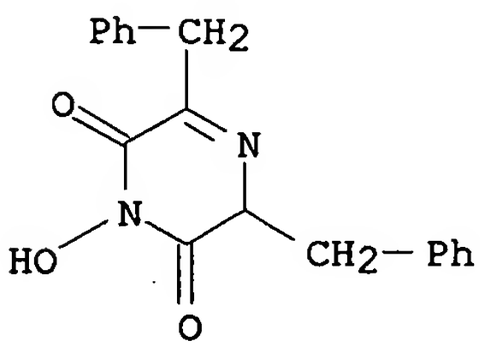


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RN   851070-91-2  CAPLUS
CN   2,6(1H,3H)-Pyrazinedione, 3,5-bis[(4-fluorophenyl)methyl]-1-hydroxy- (9CI)
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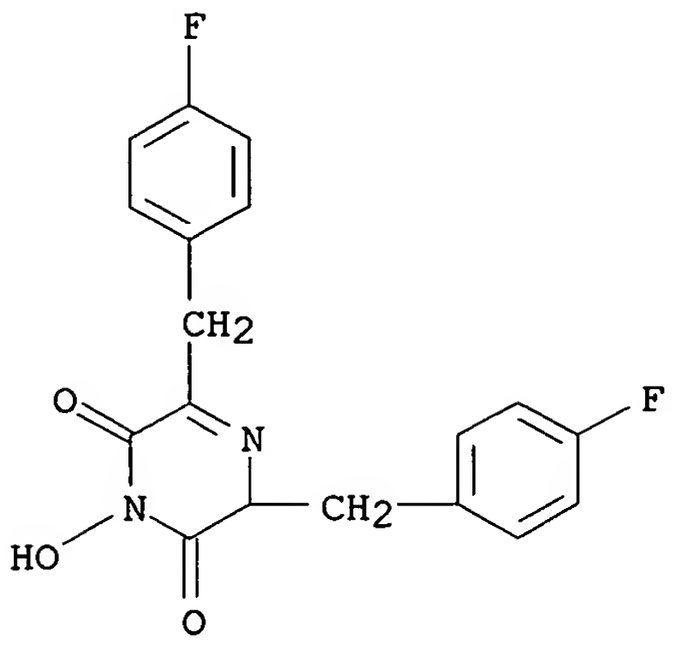
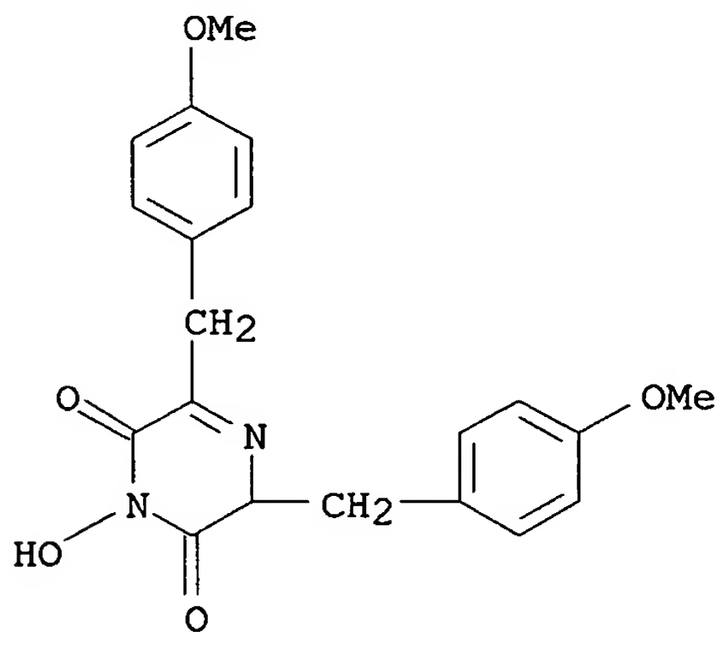
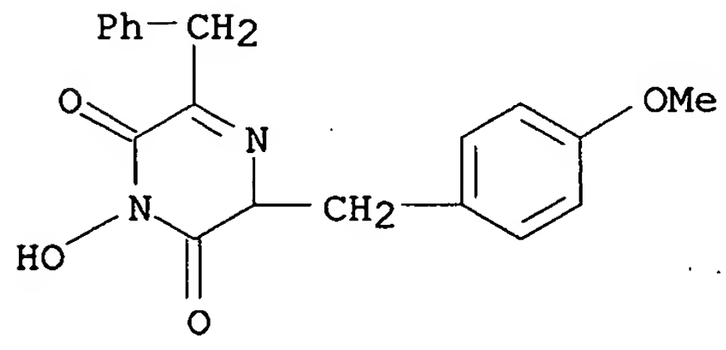
(CA INDEX NAME)



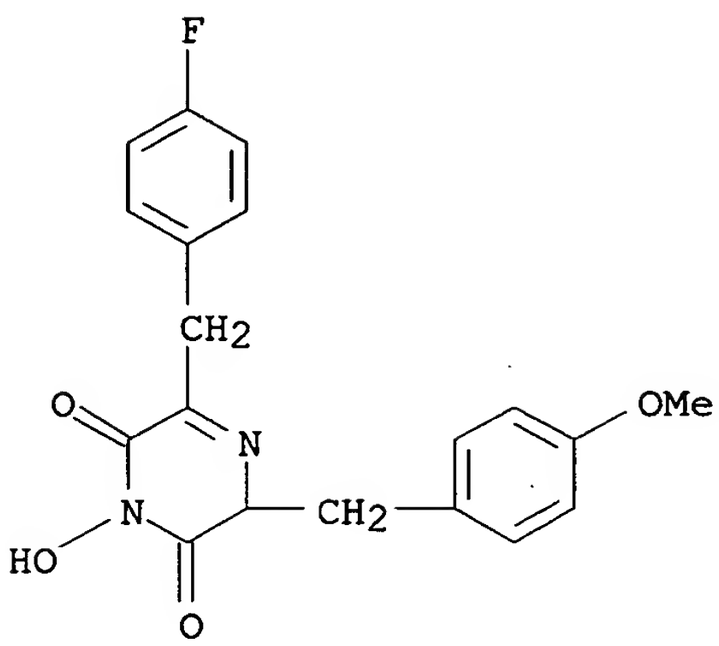
RN 851070-92-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3,5-bis[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



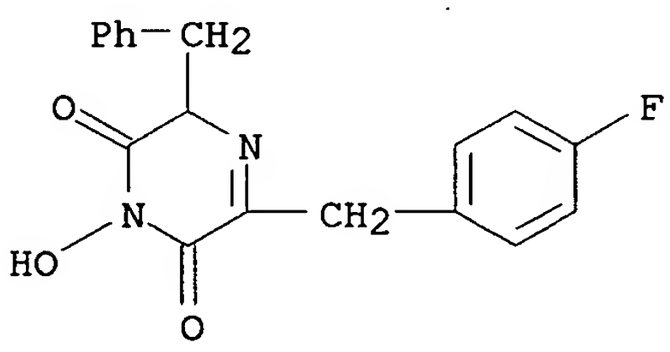
RN 851070-93-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methyl]-5-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 851070-94-5 CAPLUS
CN 2,6(1H,5H)-Pyrazinedione, 3-[(4-fluorophenyl)methyl]-1-hydroxy-5-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

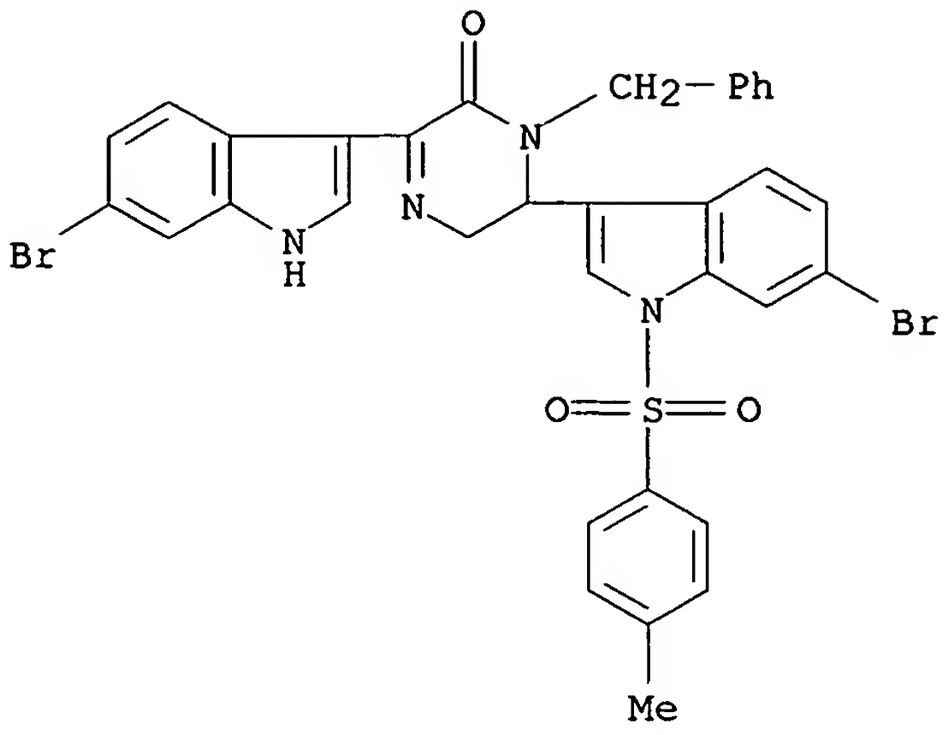


RN 851070-95-6 CAPLUS
CN 2,6(1H,5H)-Pyrazinedione, 3-[(4-fluorophenyl)methyl]-1-hydroxy-5-(phenylmethyl)- (9CI) (CA INDEX NAME)



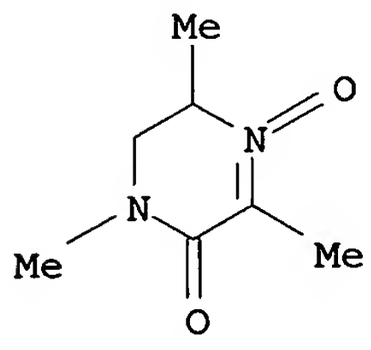
RE.CNT 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:867332 CAPLUS
DN 140:94177
TI Synthesis of marine bisindole alkaloids, hamacanthins A and B through intramolecular transamidation-cyclization
AU Kawasaki, Tomomi; Kouko, Takashi; Totsuka, Hiromi; Hiramatsu, Kei
CS Meiji Pharmaceutical University, Kiyose, Tokyo, 204-8588, Japan
SO Tetrahedron Letters (2003), 44(49), 8849-8852
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:94177
IT **642492-82-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of marine bisindole alkaloids, hamacanthins A and B through intramol. transamidation-cyclization)
RN 642492-82-8 CAPLUS
CN 1H-Indole, 6-bromo-3-[5-(6-bromo-1H-indol-3-yl)-1,2,3,6-tetrahydro-6-oxo-1-(phenylmethyl)pyrazinyl]-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:388760 CAPLUS
DN 139:133535
TI α-Keto amides as precursors to heterocycles-generation and cycloaddition reactions of piperazin-5-one nitrones
AU Heaney, Frances; Fenlon, Julie; McArdle, Patrick; Cunningham, Desmond
CS Department of Chemistry, The National University of Ireland, Maynooth, Ire.
SO Organic & Biomolecular Chemistry (2003), 1(7), 1122-1132
CODEN: OBCRAK; ISSN: 1477-0520
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 139:133535
IT **566155-32-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of piperazin-5-one nitrones from α-keto amides and preparation of isoxazolo[2,3-a]pyrazinones and pyrrolo[1,2-a]pyrazinones by cycloaddn. reactions of piperazin-5-one nitrones)
RN 566155-32-6 CAPLUS
CN 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5-trimethyl-, 4-oxide (9CI) (CA INDEX NAME)

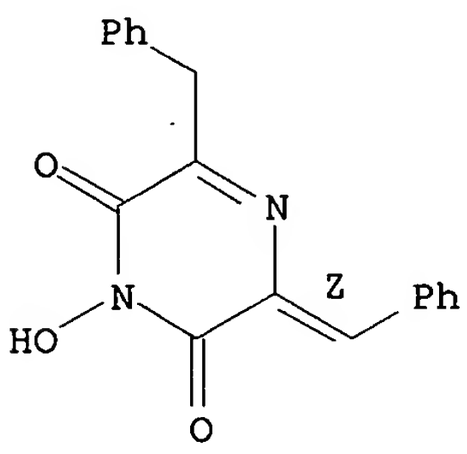


RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

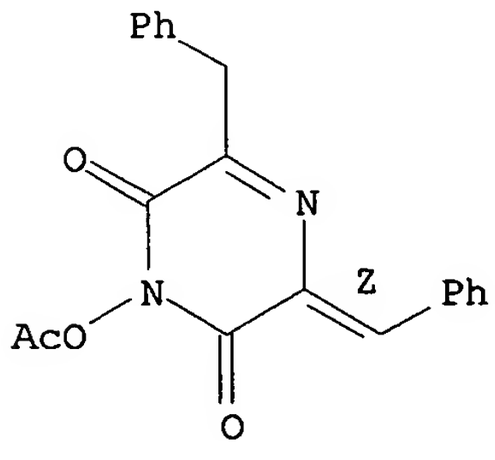
AN 2003:24867 CAPLUS
DN 138:217962
TI A new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor
AU Savard, M. E.; Melzer, M. S.; Boland, G. J.; Bensimon, C.; Blackwell, B. A.
CS Research Branch, Agriculture and Agri-Food Canada, ECORC, Ottawa, ON, K1A 0C6, Can.
SO Journal of Natural Products (2003), 66(2), 306-309
CODEN: JNPRDF; ISSN: 0163-3864
PB American Chemical Society
DT Journal
LA English
IT **500876-24-4P**, Scleromino1
RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor)
RN 500876-24-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(phenylmethyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **500876-26-6P**, Scleromino1 acetate **500876-28-8P**, Scleromino1 p-bromobenzoate
RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
(new 1-hydroxy-2,6-pyrazinedione associated with hypovirulent isolates of Sclerotinia minor)
RN 500876-26-6 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(acetyloxy)-5-(phenylmethyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

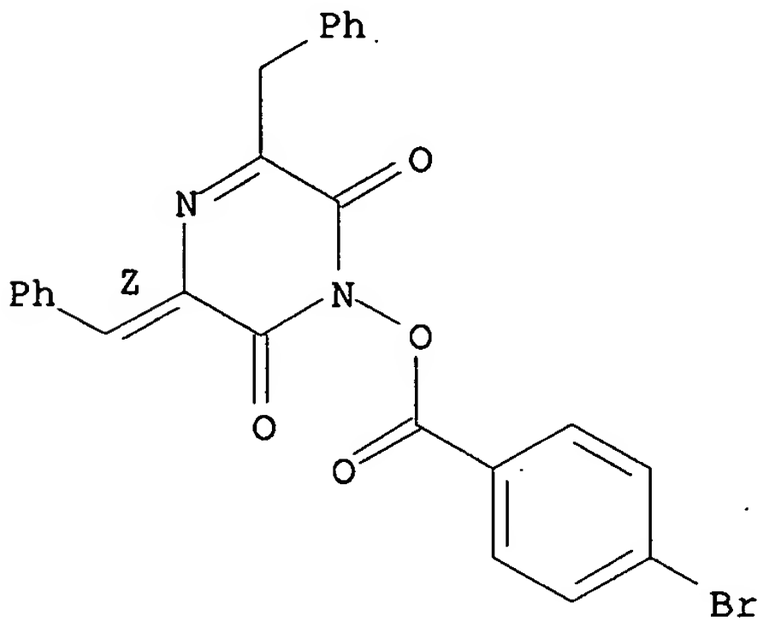
Double bond geometry as shown.



RN 500876-28-8 CAPLUS

CN 2,6(1H,3H)-Pyrazinedione, 1-[(4-bromobenzoyl)oxy]-5-(phenylmethyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



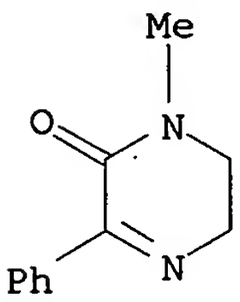
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:368461 CAPLUS
DN 136:369741
TI A novel method for preparation of piperazine and its derivatives
IN Sebastian, Sonny; Patel, Hetal Virendra; Thennati, Rajamannar
PA Sun Pharmaceutical Industries Ltd., India
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002038552	A1	20020516	WO 2001-IN129	20010629
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	IN 190478	A	20030802	IN 2000-MU994	20001107
	AU 2001078669	A5	20020521	AU 2001-78669	20010629
	BE 1013317	A6	20011106	BE 2001-513	20010727
	CH 692342	A	20020515	CH 2001-1428	20010802
	US 2002095038	A1	20020718	US 2001-37309	20011025
	US 6603003	B2	20030805		
PRAI	IN 2000-MU994	A	20001107		
	WO 2001-IN129	W	20010629		

OS CASREACT 136:369741; MARPAT 136:369741
IT **91350-29-7P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of piperazine derivs. as starting materials for preparation of pharmaceutically active compds.)

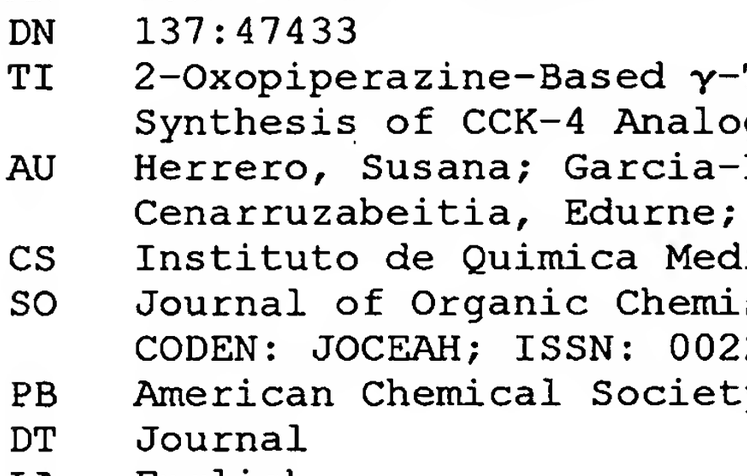
RN 91350-29-7 CAPLUS
CN 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl- (7CI, 9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

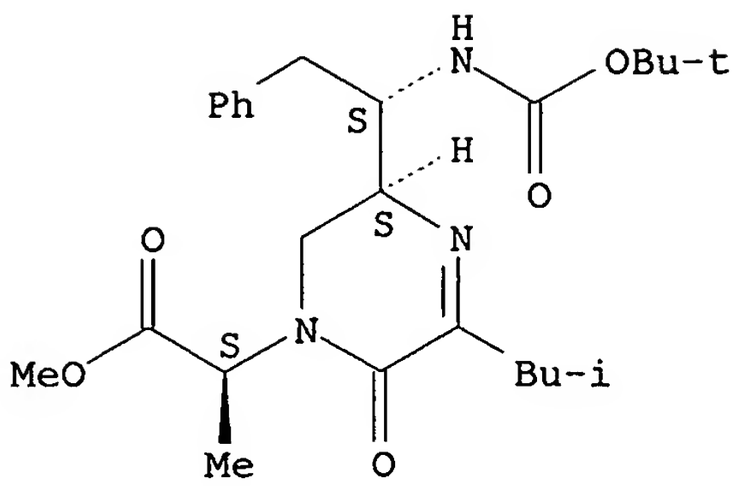
L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:319298 CAPLUS
DN 137:47433
TI 2-Oxopiperazine-Based γ-Turn Conformationally Constrained Peptides: Synthesis of CCK-4 Analogues
AU Herrero, Susana; Garcia-Lopez, M. Teresa; Latorre, Miriam; Cenarruzabeitia, Edurne; Del Rio, Joaquin; Herranz, Rosario
CS Instituto de Quimica Medica, CSIC, Madrid, 28006, Spain
SO Journal of Organic Chemistry (2002), 67(11), 3866-3873
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:47433
IT **438579-70-5P 438579-71-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of γ-turn mimetics based on oxopiperazine derivs. and cholecystokinin tetrapeptides containing them)
RN 438579-70-5 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5-[(1S)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-2-phenylethyl]-5,6-dihydro-α-methyl-3-(2-methylpropyl)-2-oxo-, methyl ester, (αS,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 438579-71-6 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5-[(1S)-1-[[(1,1-dimethylethoxy)carbonyl]amino]-2-phenylethyl]-5,6-dihydro-α-methyl-3-(2-methylpropyl)-2-oxo-, methyl ester, (αS,5S)- (9CI) (CA INDEX NAME)

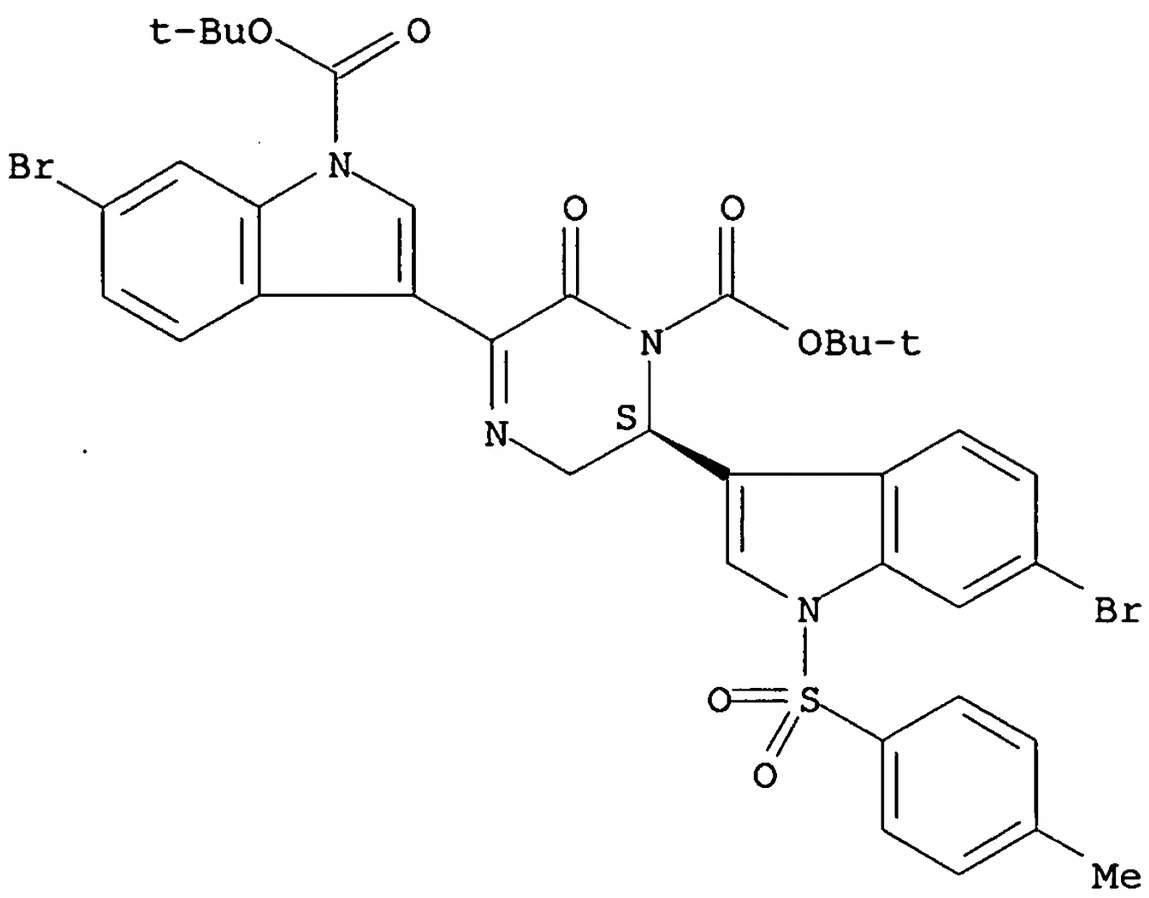
Absolute stereochemistry.



RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:287787 CAPLUS
DN 137:201470
TI Asymmetric aminohydroxylation of vinyl indoles: a short enantioselective synthesis of the bisindole alkaloids dihydrohamacanthin A and dragmacidin A
AU Yang, Cai-Guang; Wang, Jun; Tang, Xiao-Xia; Jiang, Biao
CS Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SO Tetrahedron: Asymmetry (2002), 13(4), 383-394
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 137:201470
IT **452305-72-5P**
RL: BYP (Byproduct); PREP (Preparation)
(asym. synthesis of bisindole alkaloids dihydrohamacanthin A and dragmacidin A via the asym. aminohydroxylation of vinyl indoles)
RN 452305-72-5 CAPLUS
CN 1H-Indole-1-carboxylic acid, 6-bromo-3-[(5S)-5-[6-bromo-1-[(4-methylphenyl)sulfonyl]-1H-indol-3-yl]-4-[(1,1-dimethylethoxy)carbonyl]-3,4,5,6-tetrahydro-3-oxopyrazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

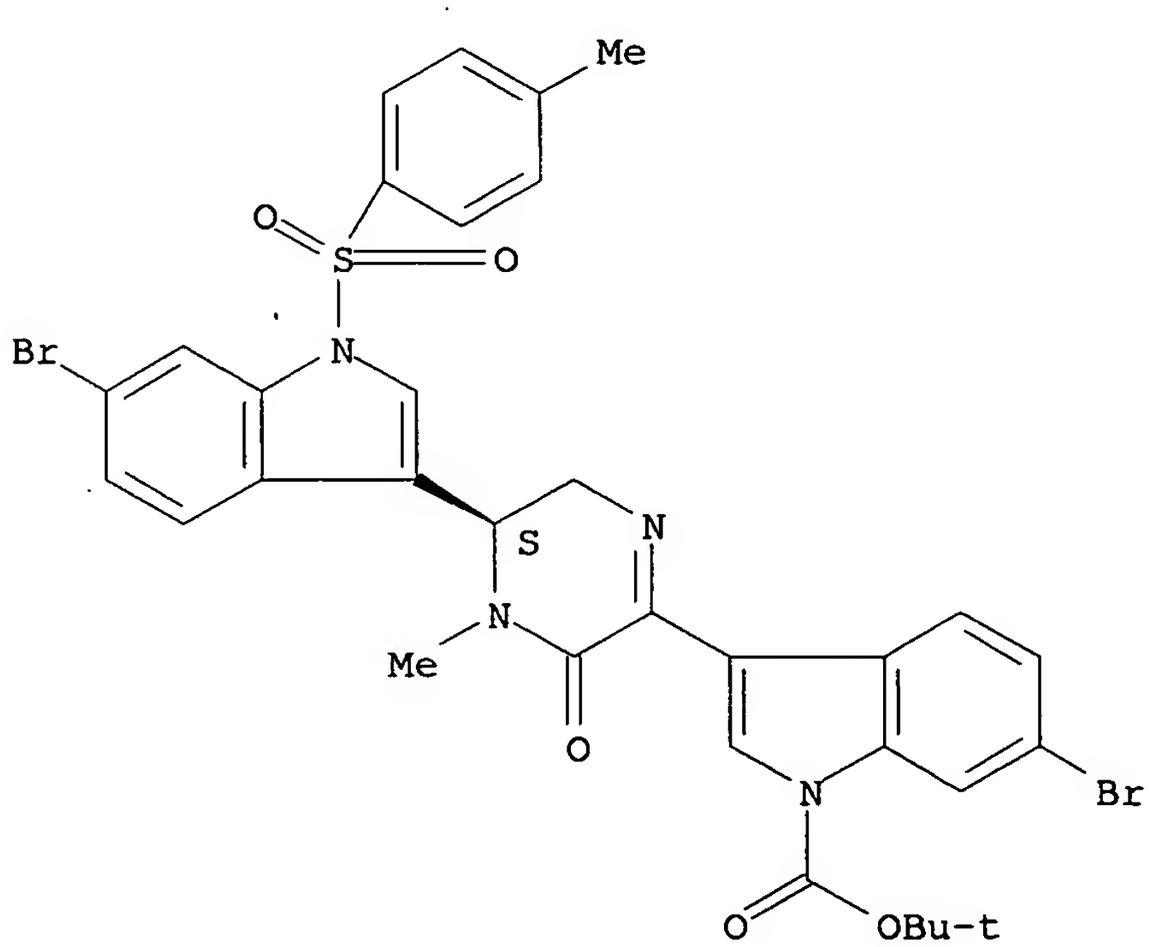


IT **452305-74-7P 452305-75-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. synthesis of bisindole alkaloids dihydrohamacanthin A and dragmacidin A via the asym. aminohydroxylation of vinyl indoles)

RN 452305-74-7 CAPLUS

CN 1H-Indole-1-carboxylic acid, 6-bromo-3-[(5S)-5-[6-bromo-1-[(4-methylphenyl)sulfonyl]-1H-indol-3-yl]-3,4,5,6-tetrahydro-4-methyl-3-oxopyrazinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

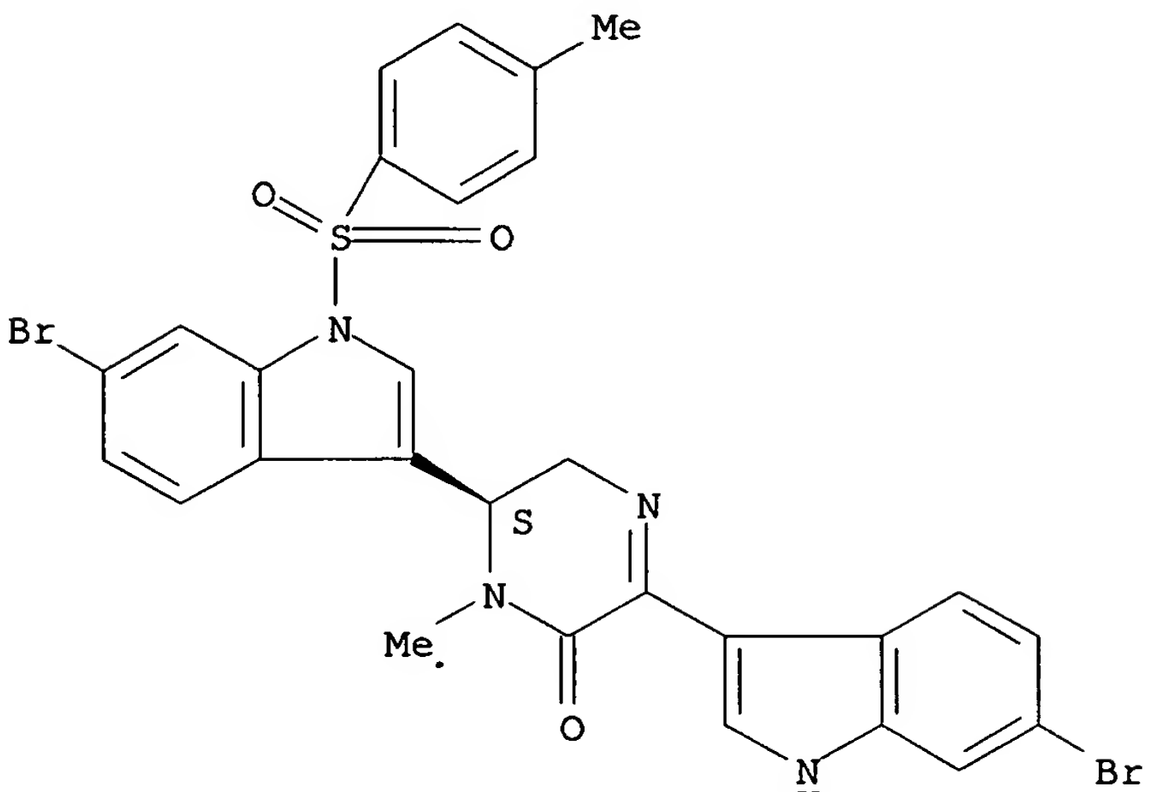
Absolute stereochemistry. Rotation (-).



RN 452305-75-8 CAPLUS

CN 1H-Indole, 6-bromo-3-[(2S)-5-(6-bromo-1H-indol-3-yl)-1,2,3,6-tetrahydro-1-methyl-6-oxopyrazinyl]-1-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

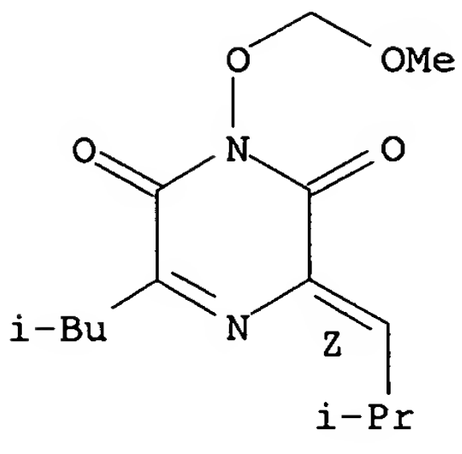


H

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

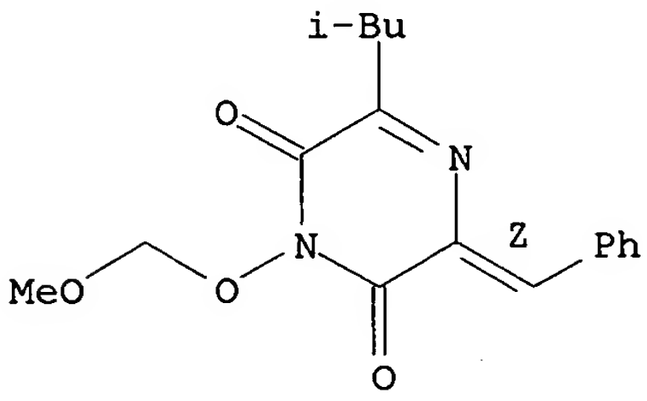
L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:490015 CAPLUS
DN 135:242042
TI Synthesis of Natural Flutimide and Analogous Fully Substituted Pyrazine-2,6-diones, Endonuclease Inhibitors of Influenza Virus
AU Singh, Sheo B.; Tomassini, Joanne E.
CS Merck Research Laboratories, Rahway, NJ, 07065, USA
SO Journal of Organic Chemistry (2001), 66(16), 5504-5516
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:242042
IT **162715-78-8P 179678-76-3P 179678-80-9P**
179678-84-3P 179678-91-2P 179678-96-7P
179678-99-0P 179679-03-9P 360556-41-8P
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of natural flutimide and analogs as endonuclease inhibitors of influenza virus)
RN 162715-78-8 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



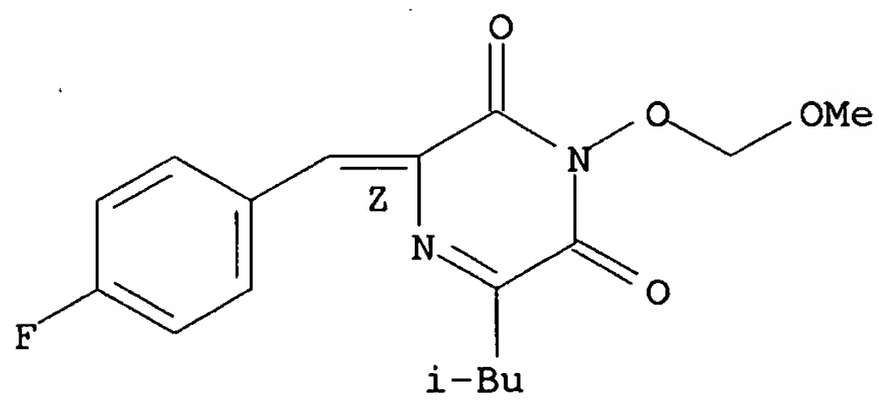
RN 179678-76-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



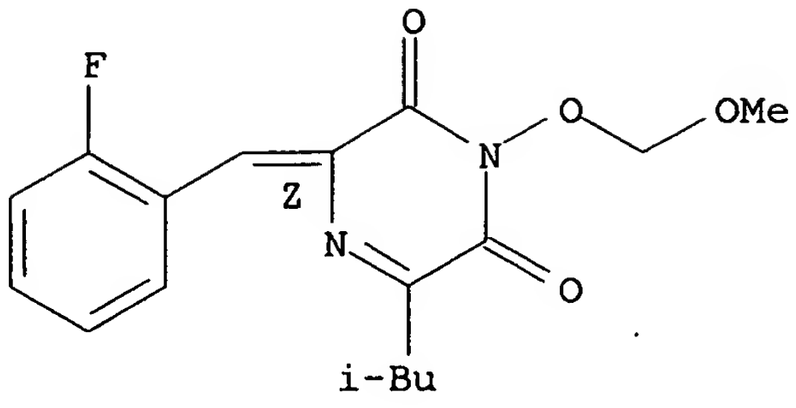
RN 179678-80-9 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



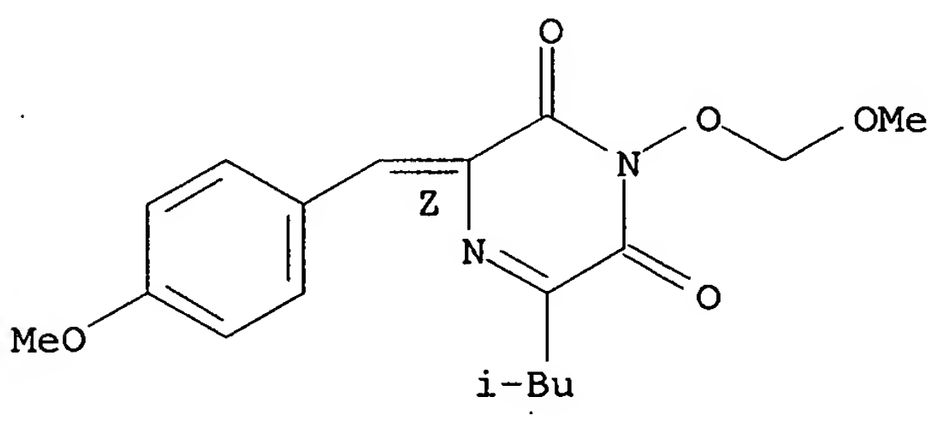
RN 179678-84-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



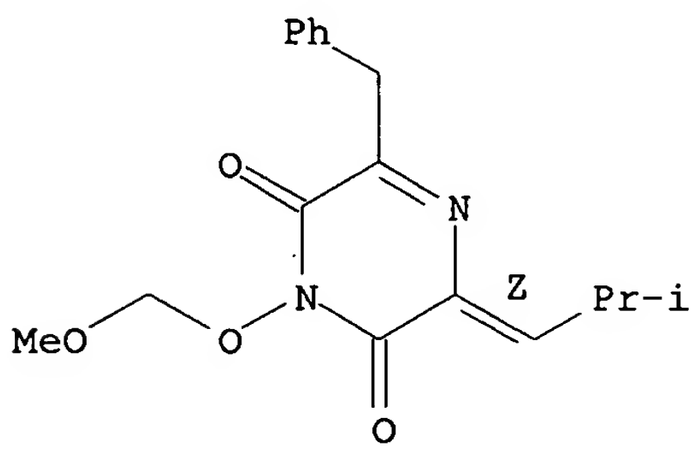
RN 179678-91-2 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



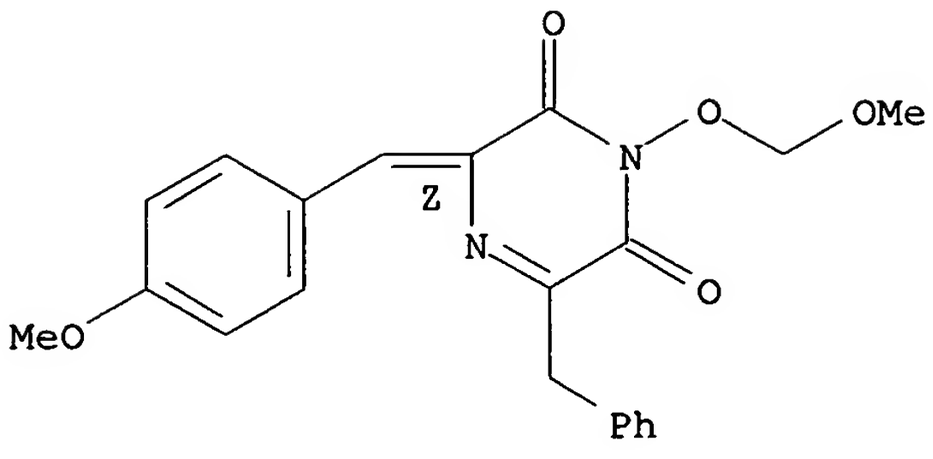
RN 179678-96-7 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-(2-methylpropylidene)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



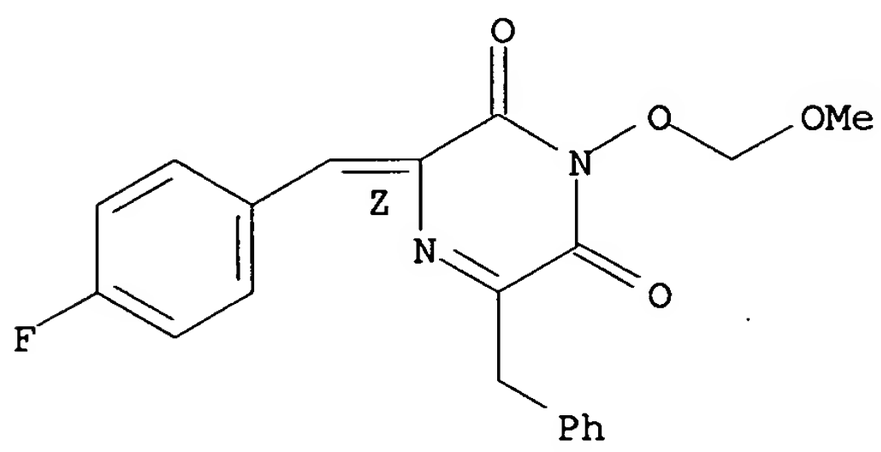
RN 179678-99-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



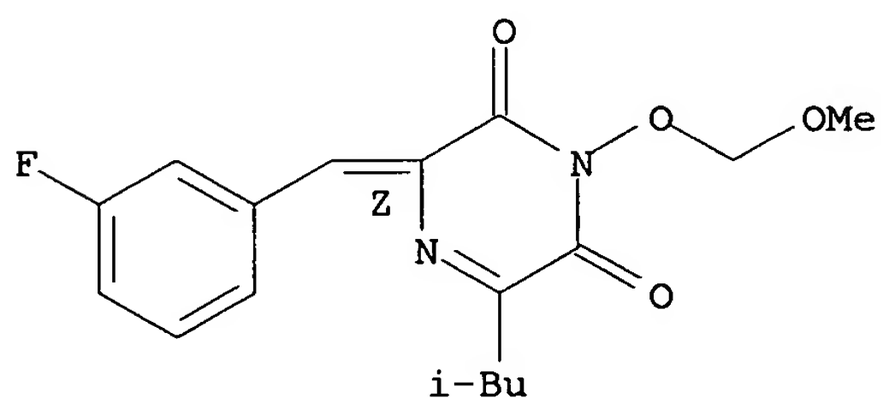
RN 179679-03-9 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



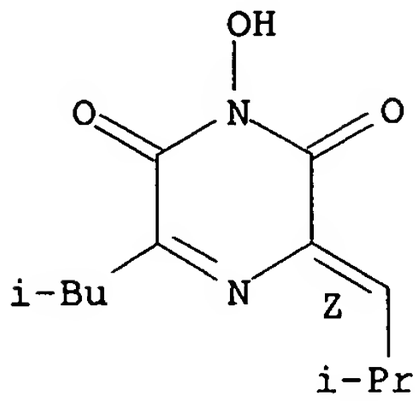
RN 360556-41-8 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(3-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



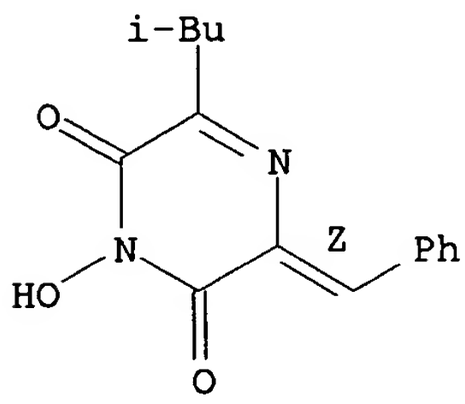
IT **162666-34-4P**, Flutimide **179678-77-4P**
179678-81-0P 179678-85-4P 179678-92-3P
179679-00-6P 179679-04-0P 179679-05-1P
360556-42-9P
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis of natural flutimide and analogs as endonuclease inhibitors of influenza virus)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



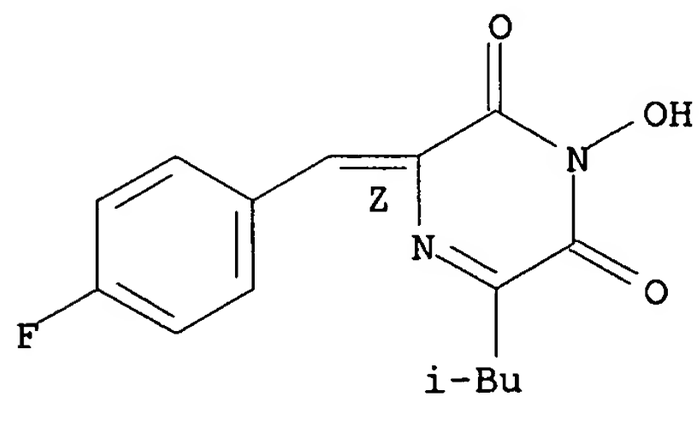
RN 179678-77-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



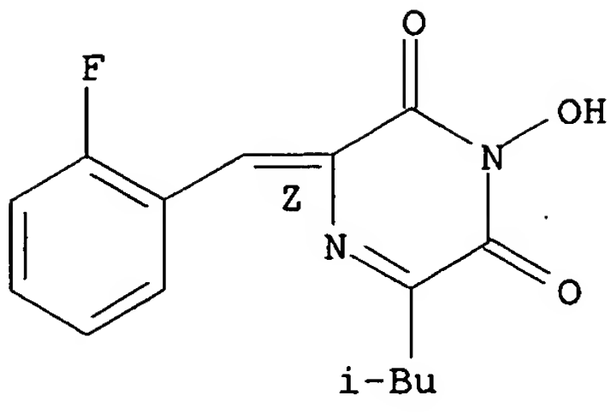
RN 179678-81-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



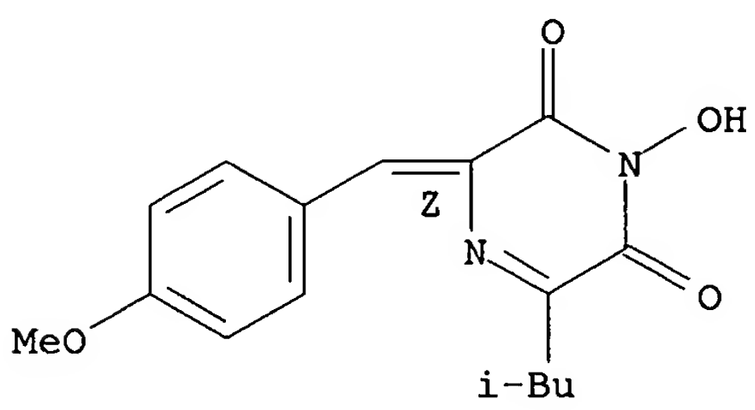
RN 179678-85-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



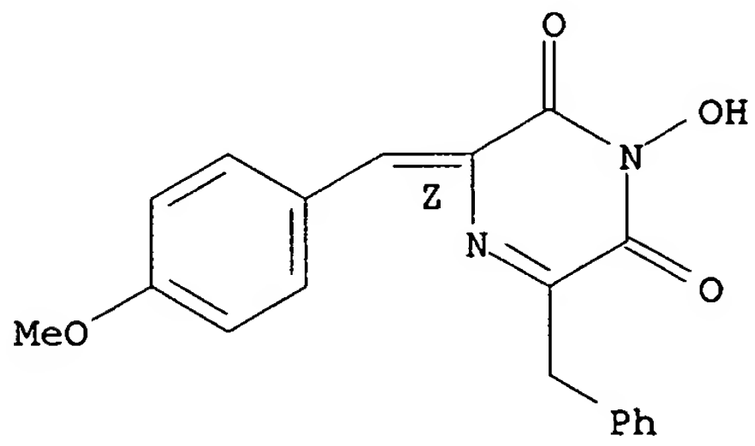
RN 179678-92-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



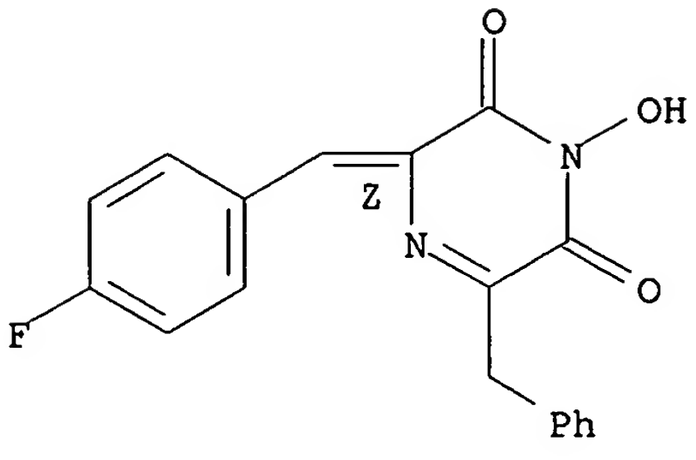
RN 179679-00-6 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



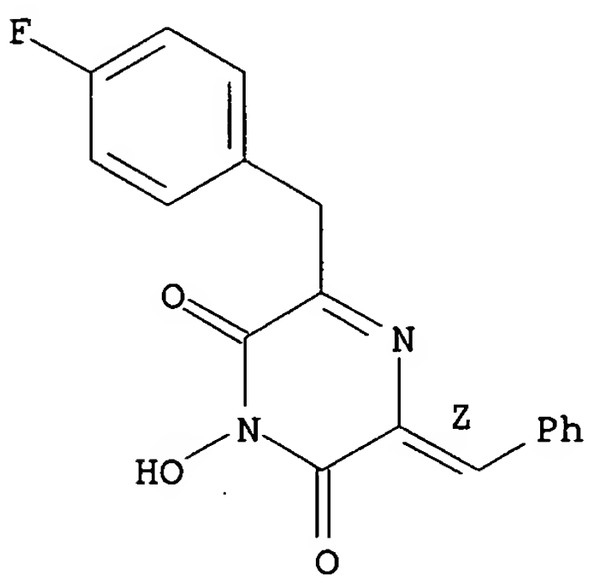
RN 179679-04-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



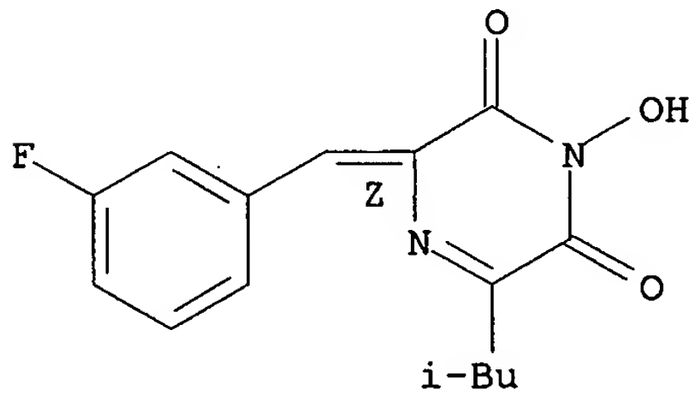
RN 179679-05-1 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 5-[(4-fluorophenyl)methyl]-1-hydroxy-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 360556-42-9 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(3-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

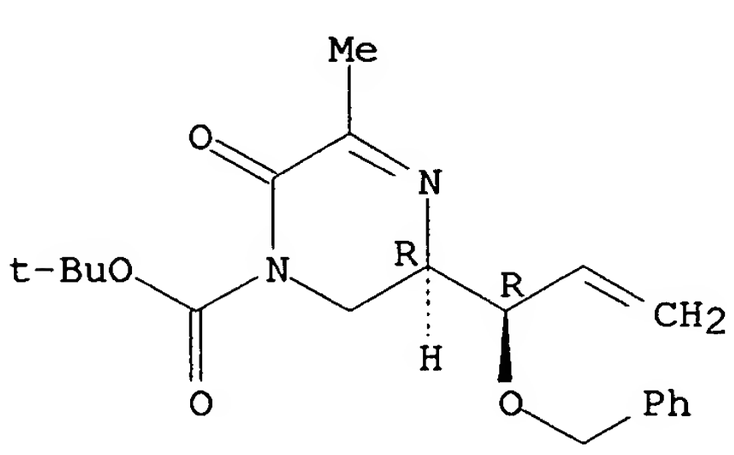


RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:122183 CAPLUS
DN 132:279031
TI Formal Total Synthesis of (-)-Balanol: Concise Approach to the Hexahydroazepine Segment Based on RCM
AU Fuerstner, Aloiś; Thiel, Oliver R.
CS Max-Planck-Institut fuer Kohlenforschung, Muelheim/Ruhr, D-45470, Germany

SO Journal of Organic Chemistry (2000), 65(6), 1738-1742
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 132:279031
IT **263889-24-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(formal total synthesis of (-)-balanol: concise approach to hexahydroazepine segment based on ring closing alkene metathesis)
RN 263889-24-3 CAPLUS
CN 1(2H)-Pyrazinecarboxylic acid, 5,6-dihydro-3-methyl-2-oxo-5-[(1R)-1-(phenylmethoxy)-2-propenyl]-, 1,1-dimethylethyl ester, (5R)- (9CI) (CA INDEX NAME)

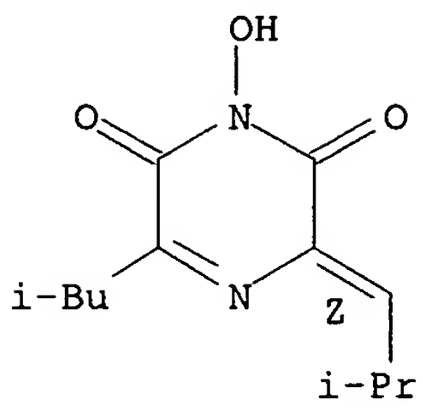
Absolute stereochemistry.



RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

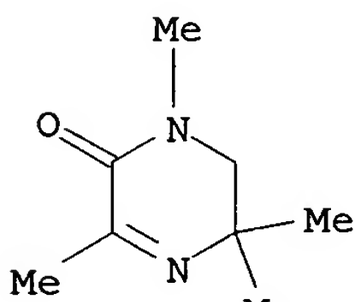
L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:34139 CAPLUS
DN 132:302789
TI Flutimide, Merck & Co Inc
AU Mossad, Sherif B.
CS Department of Infectious Disease, Cleveland Clinic Foundation, Cleveland, OH, 44195, USA
SO Current Opinion in Anti-Infective Investigational Drugs (1999), 1(5), 615-617
CODEN: COADFY; ISSN: 1464-8458
PB Current Drugs Ltd.
DT Journal; General Review
LA English
IT **162666-34-4P**, Flutimide
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(pharmacol. of endonuclease inhibitor flutimide for treatment of influenza virus infection)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

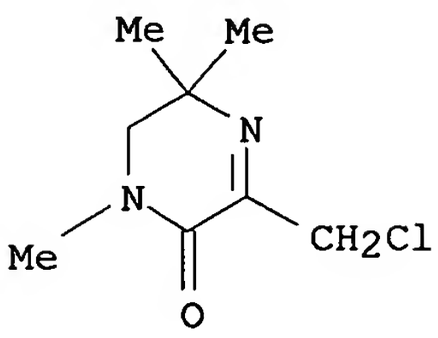


RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:23047 CAPLUS
DN 128:127989
TI Carbonyl and thiocarbonyl stabilized 1,4-dihydropyrazines: synthesis and characterization
AU Brook, David J. R.; Noll, Bruce C.; Koch, Tad H.
CS Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO 80309-0215, USA
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1998), (2), 289-292
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 128:127989
IT **82043-99-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and properties of pyrazinobisoxazinedione analogs)
RN 82043-99-0 CAPLUS
CN 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)

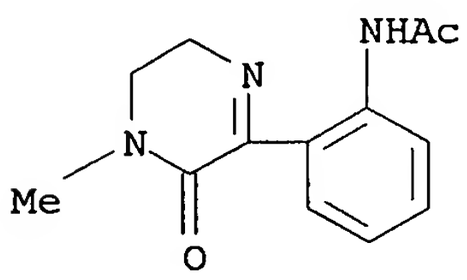


IT **201862-51-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and properties of pyrazinobisoxazinedione analogs)
RN 201862-51-3 CAPLUS
CN 2(1H)-Pyrazinone, 3-(chloromethyl)-5,6-dihydro-1,5,5-trimethyl- (9CI) (CA INDEX NAME)



RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:493706 CAPLUS
DN 127:190705
TI Synthesis of 5H-pyrazino[2,3-b]indoles from indole-2,3-dione derivatives
AU Bergman, Jan; Vallberg, Hans
CS Department of Organic Chemistry, Royal Institute of Technology, Stockholm, S-100 44, Swed.
SO Acta Chemica Scandinavica (1997), 51(6/7), 742-752
CODEN: ACHSE7; ISSN: 0904-213X
PB Munksgaard
DT Journal
LA English
IT **193959-58-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazinoindoles from indoledione derivs.)
RN 193959-58-9 CAPLUS
CN Acetamide, N-[2-(3,4,5,6-tetrahydro-4-methyl-3-oxopyrazinyl)phenyl]- (9CI) (CA INDEX NAME)



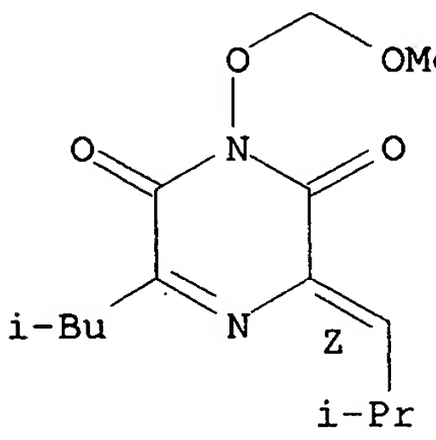
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:483375 CAPLUS
DN 125:142767
TI Hydroxypyrazinedione endonuclease inhibitors
IN Singh, Sheo Bux
PA Merck and Co., Inc., USA
SO Brit. UK Pat. Appl., 75 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2294263	A1	19960424	GB 1995-20620	19951009
	US 5624928	A	19970429	US 1994-324557	19941018
PRAI	US 1994-324557	A	19941018		

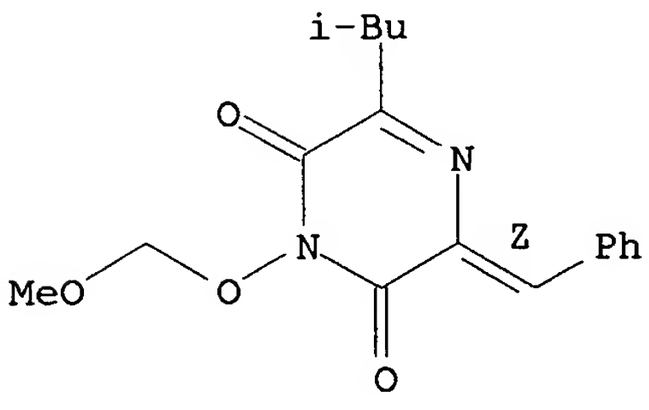
OS MARPAT 125:142767
IT **162715-78-8P 179678-76-3P 179678-80-9P**
179678-81-0P 179678-84-3P 179678-91-2P
179678-96-7P 179678-99-0P 179679-03-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(hydroxypyrazinedione endonuclease inhibitors)
RN 162715-78-8 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



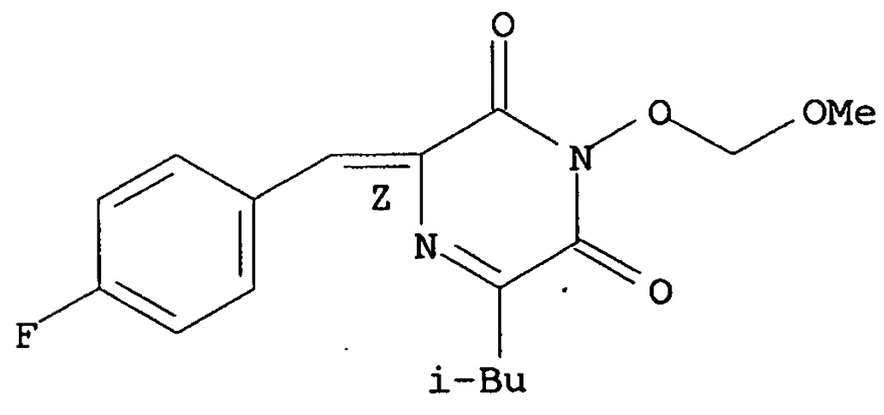
RN 179678-76-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179678-80-9 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

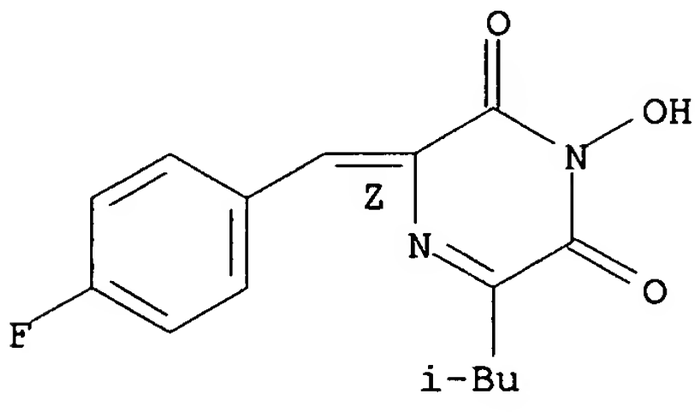
Double bond geometry as shown.



RN 179678-81-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(2-

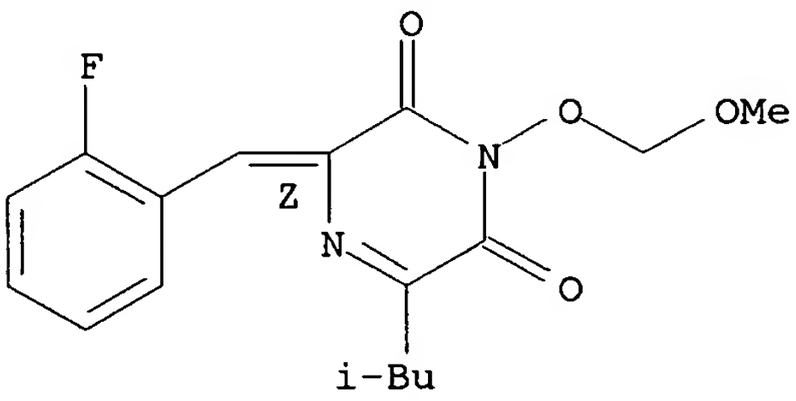
methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



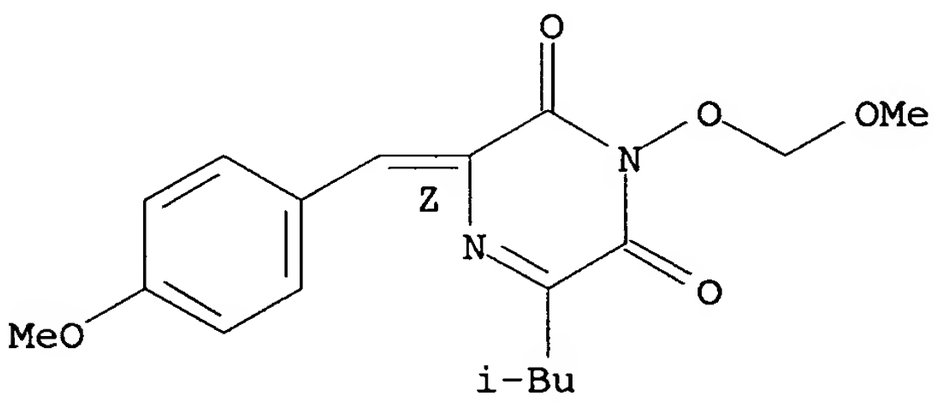
RN 179678-84-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



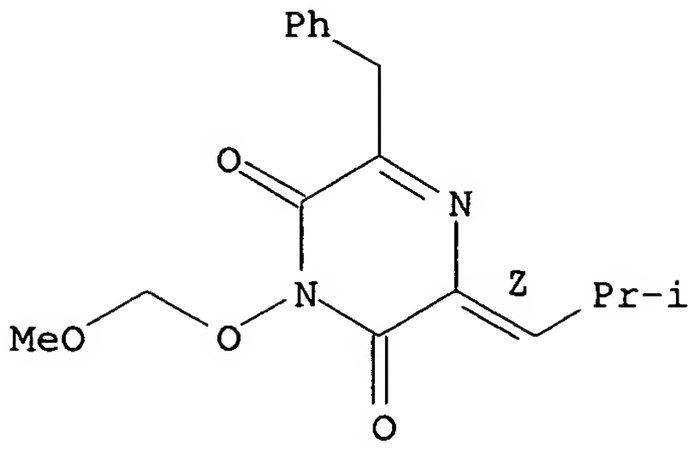
RN 179678-91-2 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



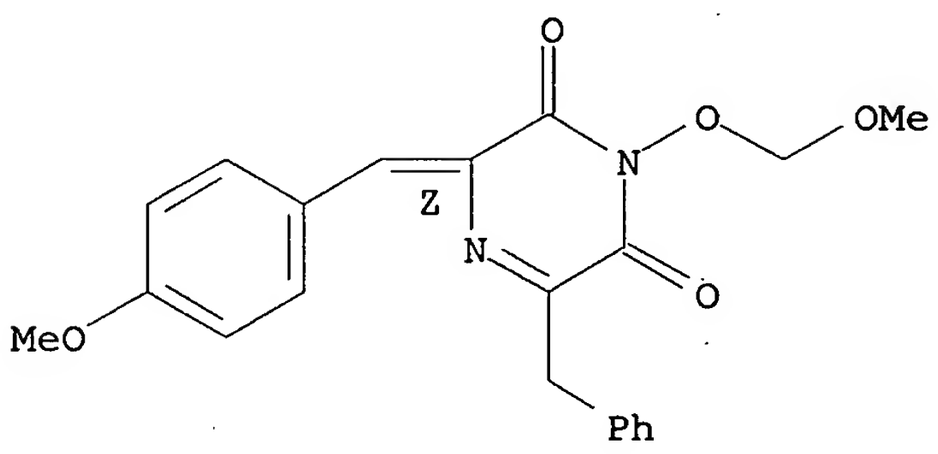
RN 179678-96-7 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-(2-methylpropylidene)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



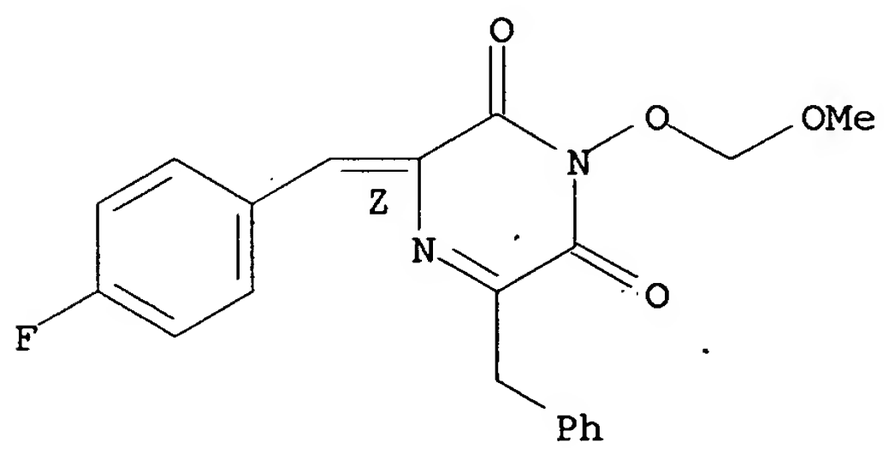
RN 179678-99-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



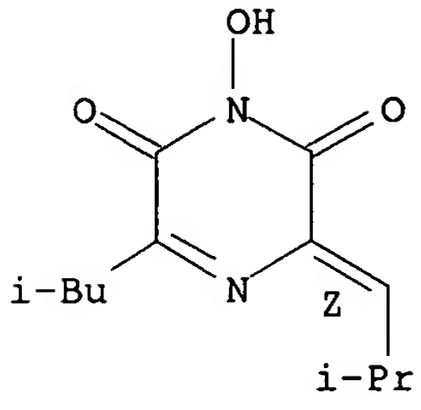
RN 179679-03-9 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-(methoxymethoxy)-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



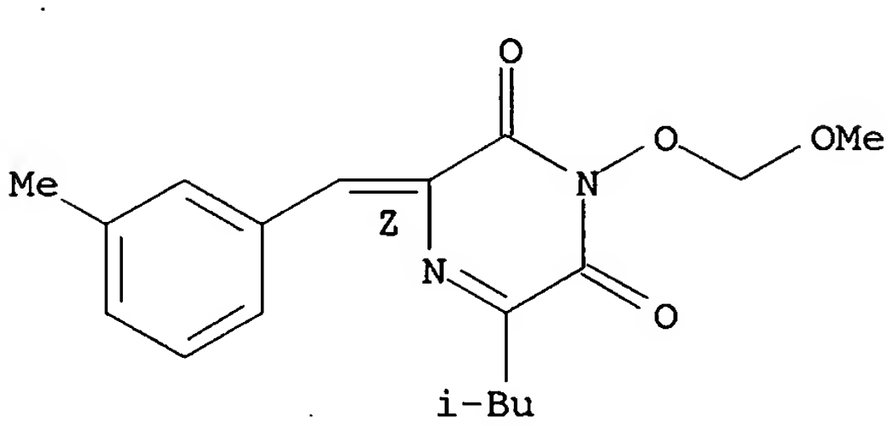
IT **162666-34-4P 179678-68-3P 179678-77-4P**
179678-85-4P 179678-88-7P 179678-92-3P
179679-00-6P 179679-04-0P 179679-05-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(hydroxypyrazinedione endonuclease inhibitors)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



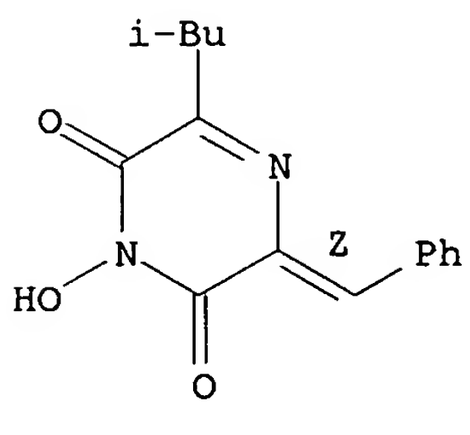
RN 179678-68-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-3-[(3-methylphenyl)methylene]-5-(2-methylpropyl)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



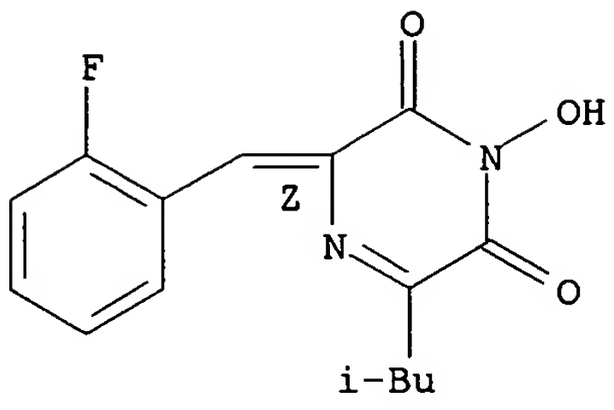
RN 179678-77-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



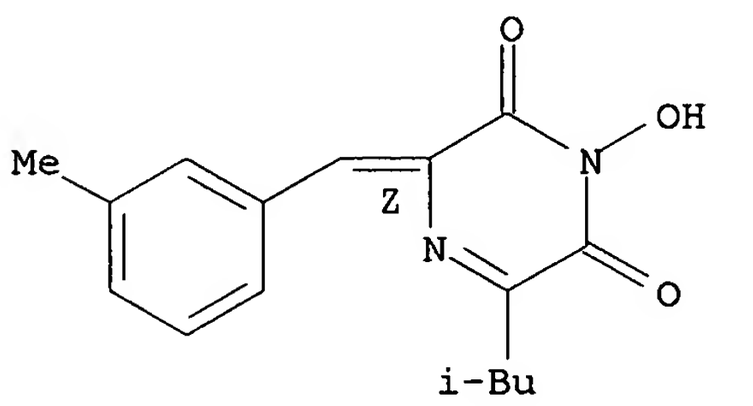
RN 179678-85-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(2-fluorophenyl)methylene]-1-hydroxy-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



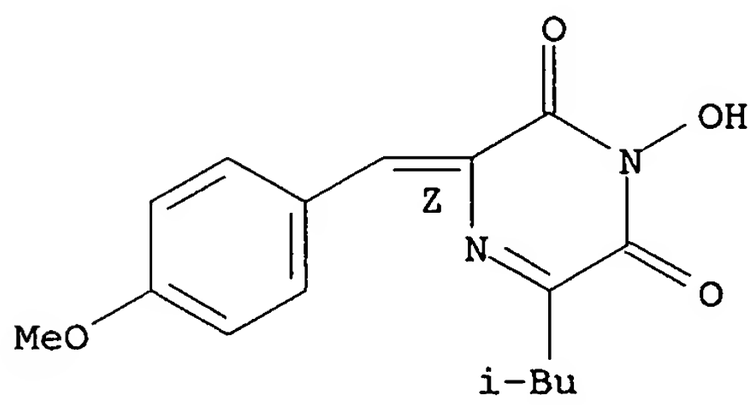
RN 179678-88-7 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(3-methylphenyl)methylene]-5-(2-methylpropyl)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



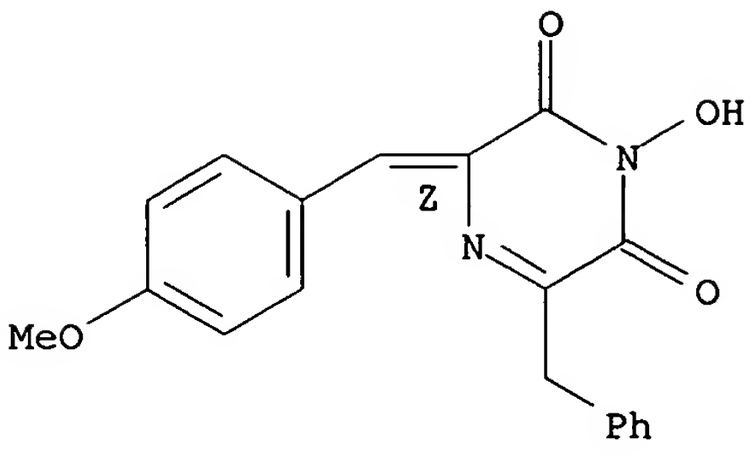
RN 179678-92-3 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(2-methylpropyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



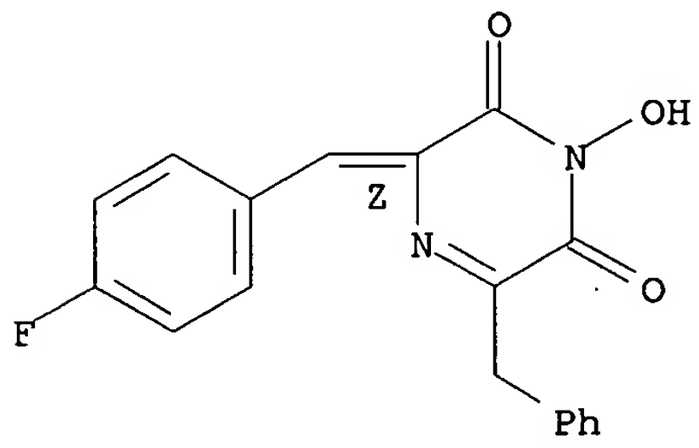
RN 179679-00-6 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-3-[(4-methoxyphenyl)methylene]-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



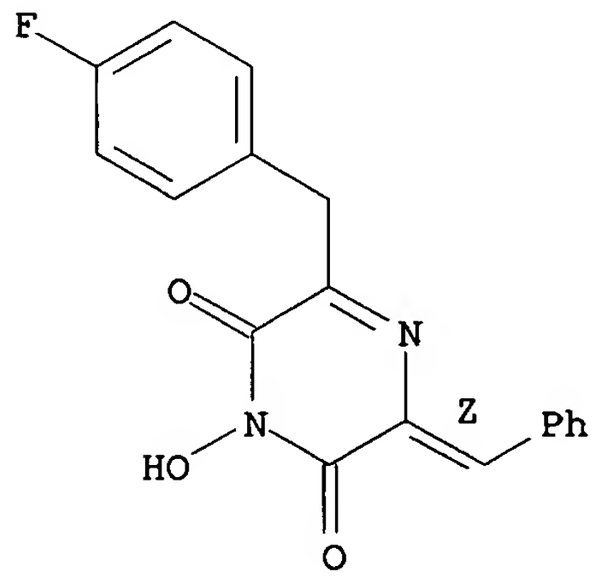
RN 179679-04-0 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 3-[(4-fluorophenyl)methylene]-1-hydroxy-5-(phenylmethyl)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 179679-05-1 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 5-[(4-fluorophenyl)methyl]-1-hydroxy-3-(phenylmethylene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

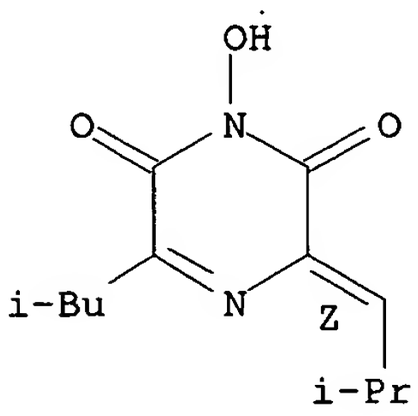


L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:274648 CAPLUS
DN 124:331772
TI A novel antiviral agent which inhibits the endonuclease of influenza viruses
AU Tomassini, J. E.; Davies, M. E.; Hastings, J. C.; Lingham, R.; Mojena, M.; Raghoobar, S. L.; Singh, S. B.; Tkacz, J. S.; Goetz, M. A.
CS Merck Research Laboratories, West Point, PA, 19486-0004, USA

10/634,713

SO Antimicrobial Agents and Chemotherapy (1996), 40(5), 1189-1193
CODEN: AMACCQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English
IT **162666-34-4**, Flutimide
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiviral flutimide inhibits endonuclease of influenza viruses)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

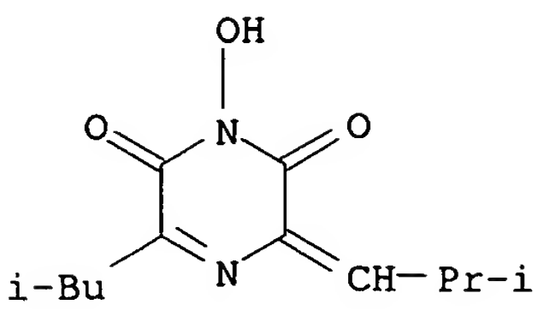
Double bond geometry as shown.



L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:503144 CAPLUS
DN 122:235152
TI Anti-viral agent
IN Goetz, Michael A.; Lingham, Russell B.; Polishook, Jon D.; Hensens, Otto D.; Tkacz, Jan S.; Zink, Deborah L.; Raghoobar, Susan L.; Singh, Sheo Bux; Martin, Isabel; et al.
PA Merck and Co., Inc., USA
SO Brit. UK Pat. Appl., 22 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

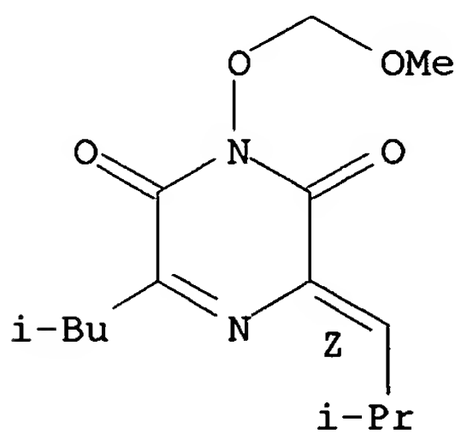
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2280435	A1	19950201	GB 1994-14754	19940721
PRAI US 1993-99087	A	19930729		

IT **162436-71-7P**
RL: BAC (Biological activity or effector, except adverse); BMF (Bioindustrial manufacture); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(inhibitor of influenza virus from Delitschia confertaspora)
RN 162436-71-7 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)- (9CI) (CA INDEX NAME)



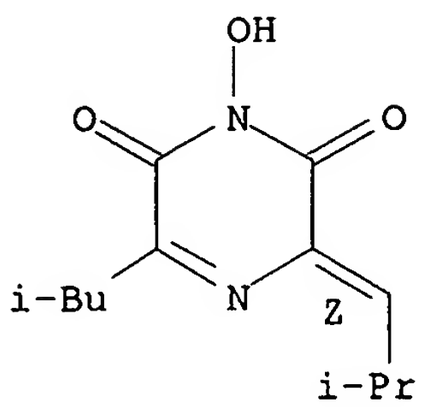
L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:476966 CAPLUS
DN 122:290538
TI Total synthesis of flutimide, a novel endonuclease inhibitor of influenza virus
AU Singh, Sheo B.
CS Merck Res. Lab., Rahway, NJ, 07065, USA
SO Tetrahedron Letters (1995), 36(12), 2009-12
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
OS CASREACT 122:290538
IT **162715-78-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(total synthesis of flutimide)
RN 162715-78-8 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-(methoxymethoxy)-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



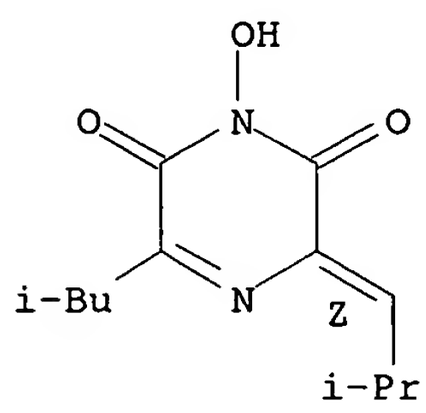
IT **162666-34-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(total synthesis of flutimide)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:476965 CAPLUS
DN 122:260673
TI Isolation and structure of flutimide, a novel endonuclease inhibitor of influenza virus
AU Hensens, Otto D.; Goetz, Michael A.; Liesch, Jerrold M.; Zink, Deborah L.; Raghoobar, Susan L.; Helms, Gregory L.; Singh, Sheo B.
CS Merck Res. Lab., Rahway, NJ, 07065-0900, USA
SO Tetrahedron Letters (1995), 36(12), 2005-8
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
IT **162666-34-4P**, Flutimide
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(flutimide, a novel influenza virus endonuclease inhibitor from Delitschia confertaspora)
RN 162666-34-4 CAPLUS
CN 2,6(1H,3H)-Pyrazinedione, 1-hydroxy-5-(2-methylpropyl)-3-(2-methylpropylidene)-, (3Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

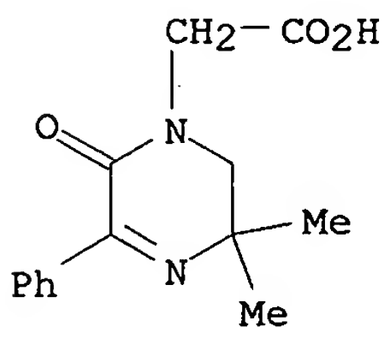


L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:129629 CAPLUS
DN 116:129629
TI Preparation of reduced size LH-RH analogs as LH-RH agonists and antagonists
IN Haviv, Fortuna; Palabrica, Christopher A.; Greer, Jonathan; Fitzpatrick, Timothy D.
PA Abbott Laboratories, USA
SO Eur. Pat. Appl., 90 pp.
CODEN: EPXXDW

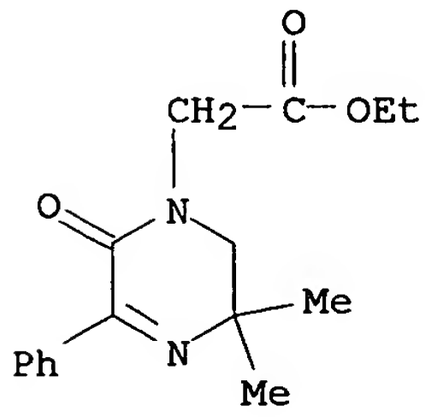
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 417454	A2	19910320	EP 1990-114752	19900801
	EP 417454	A3	19910710		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 5140009	A	19920818	US 1990-548511	19900710
	CA 2022437	AA	19910208	CA 1990-2022437	19900801
	CA 2022437	C	20021022		
	NO 9003454	A	19910208	NO 1990-3454	19900806
	HU 55414	A2	19910528	HU 1990-4911	19900806
	KR 161972	B1	19981116	KR 1990-11998	19900806
	AU 9060285	A1	19910207	AU 1990-60285	19900807
	JP 03081292	A2	19910405	JP 1990-209059	19900807
	AU 9457894	A1	19940519	AU 1994-57894	19940317
	AU 675274	B2	19970130		
PRAI	US 1989-390269	A	19890807		
	US 1990-548511	A	19900710		
	US 1988-154682	B2	19880210		

OS MARPAT 116:129629
IT **110694-65-0P 137088-49-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation LH-RH agonists and antagonists)
RN 110694-65-0 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI) (CA INDEX NAME)



RN 137088-49-4 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

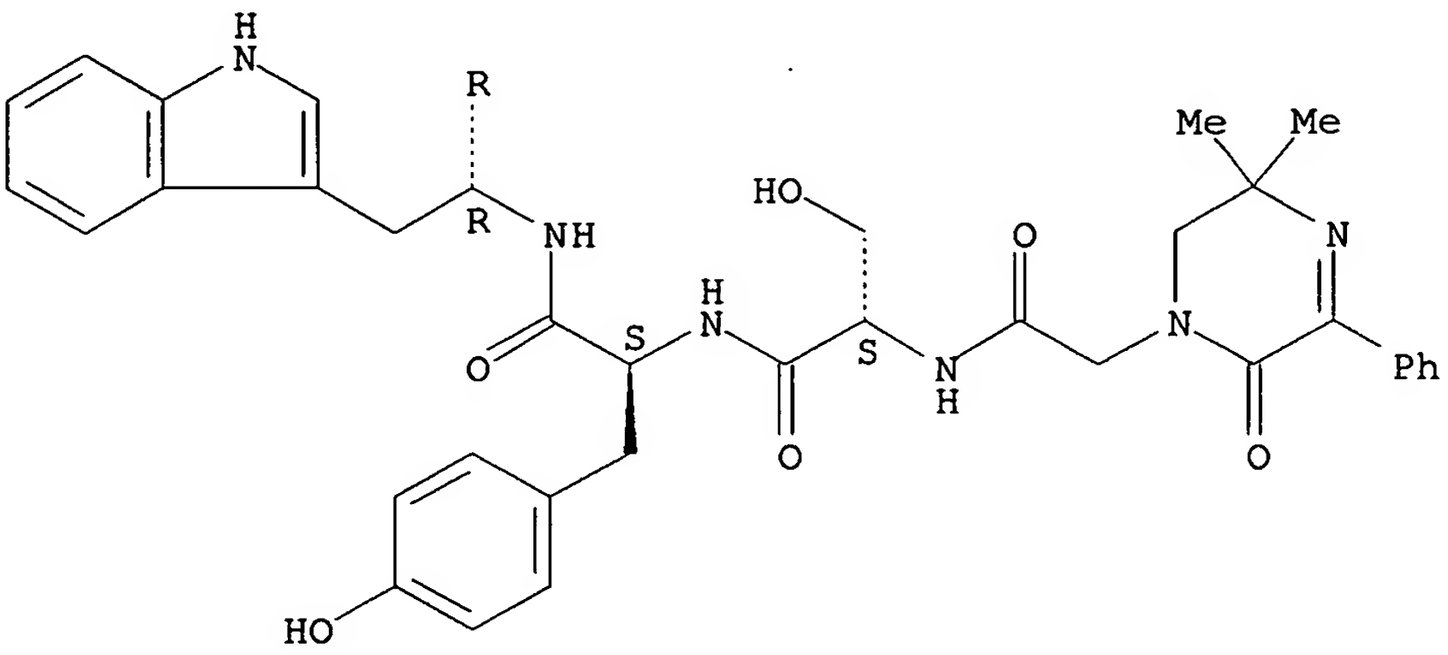


IT **125157-31-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of LH-RH agonists and antagonists)

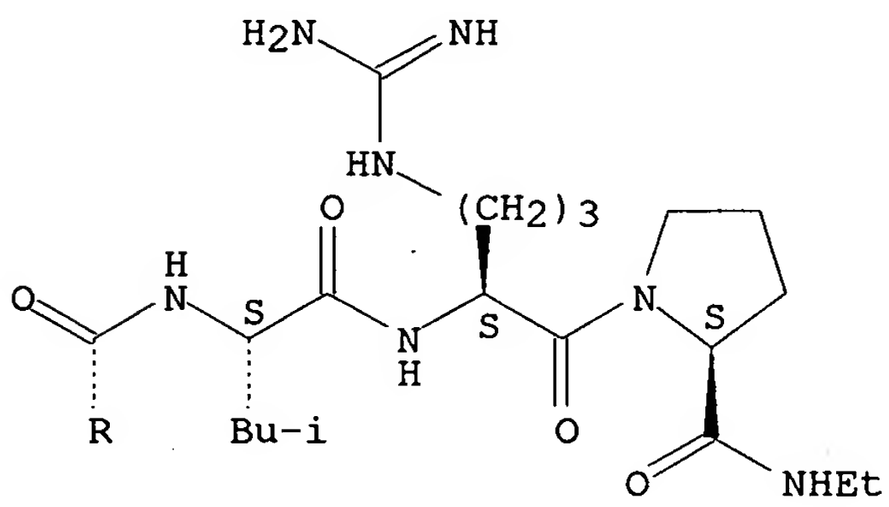
RN 125157-31-5 CAPLUS
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



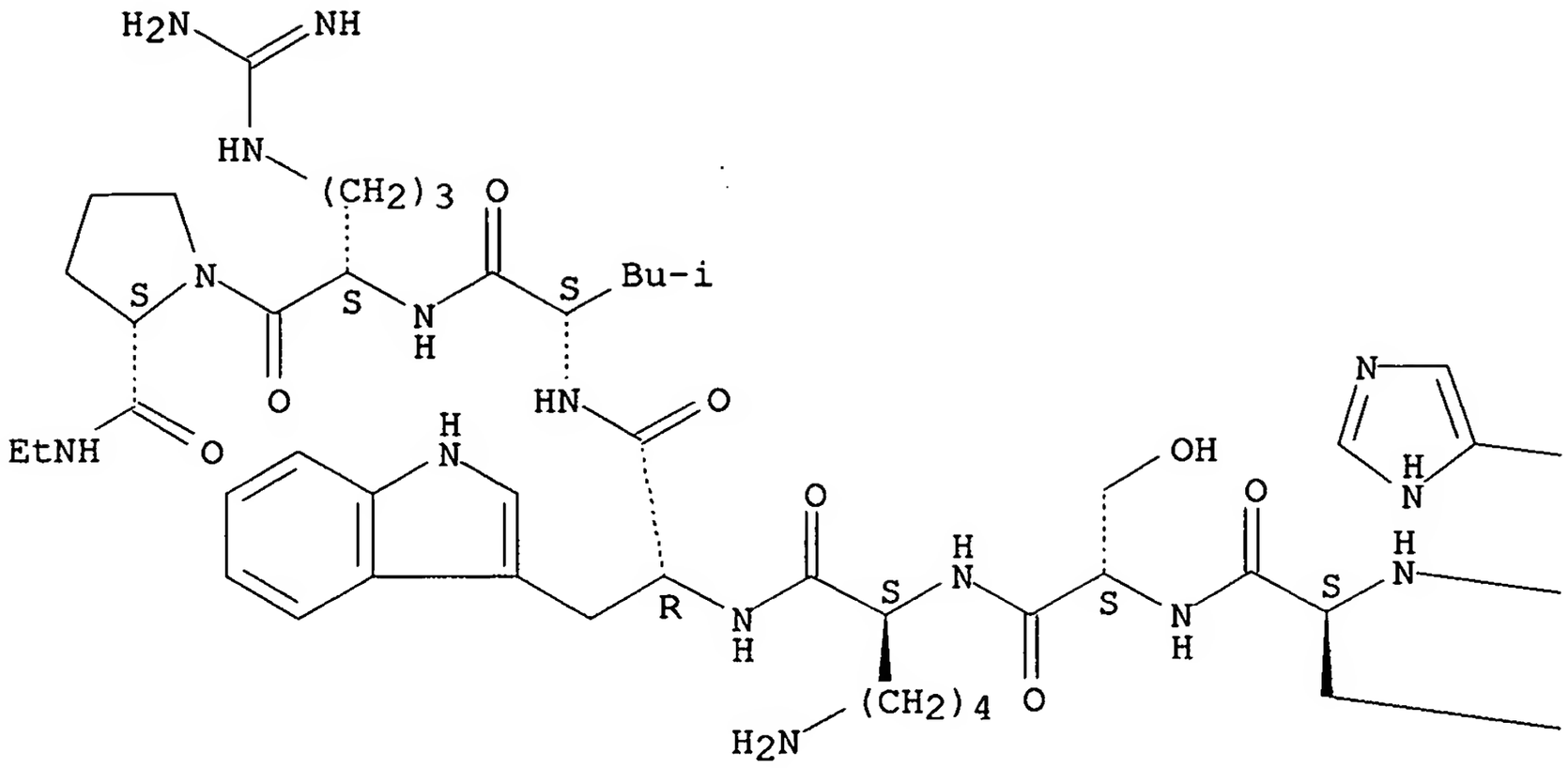
PAGE 2-A



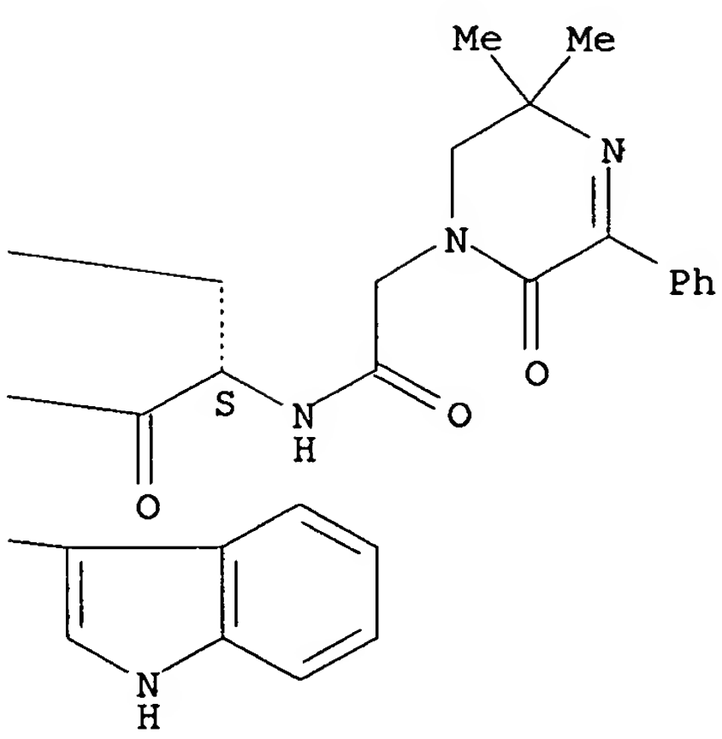
IT **125157-54-2P 125157-55-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as LH-RH agonist and antagonist)
RN 125157-54-2 CAPLUS
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



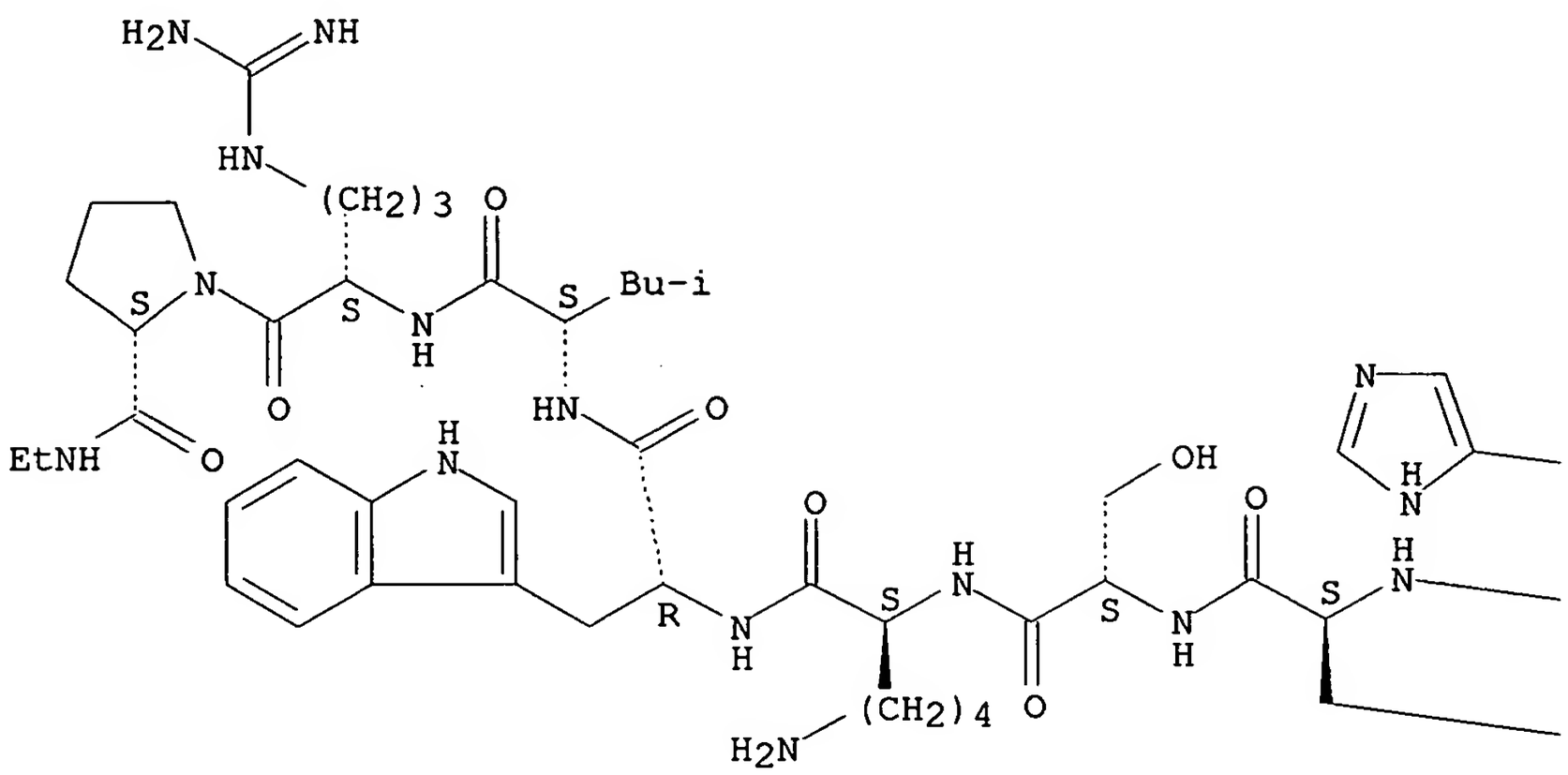
RN 125157-55-3 CAPLUS
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

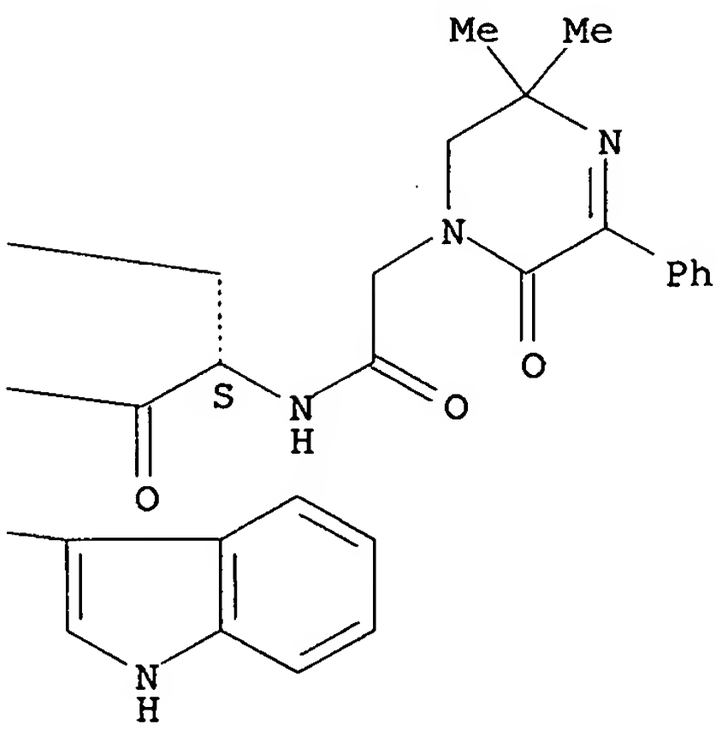
CRN 125157-54-2
CMF C70 H95 N19 O11

Absolute stereochemistry.

PAGE 1-A

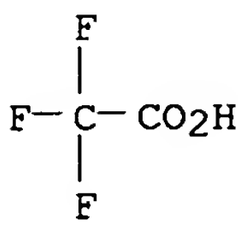


PAGE 1-B



CM 2

CRN 76-05-1
CMF C2 H F3 O2

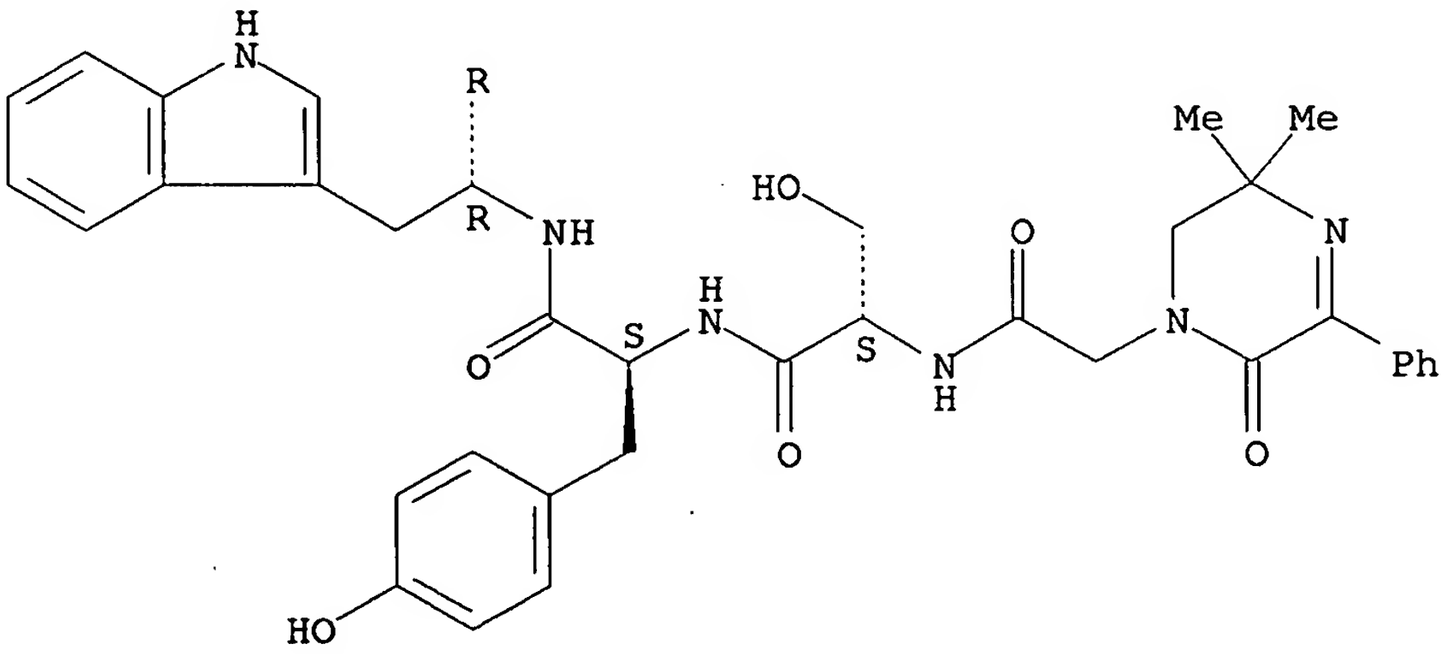


L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:77966 CAPLUS
DN 112:77966
TI Preparation of LHRH analogs
IN Haviv, Fortuna; Palabrica, Christopher A.; Greer, Jonathan
PA Abbott Laboratories, USA
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

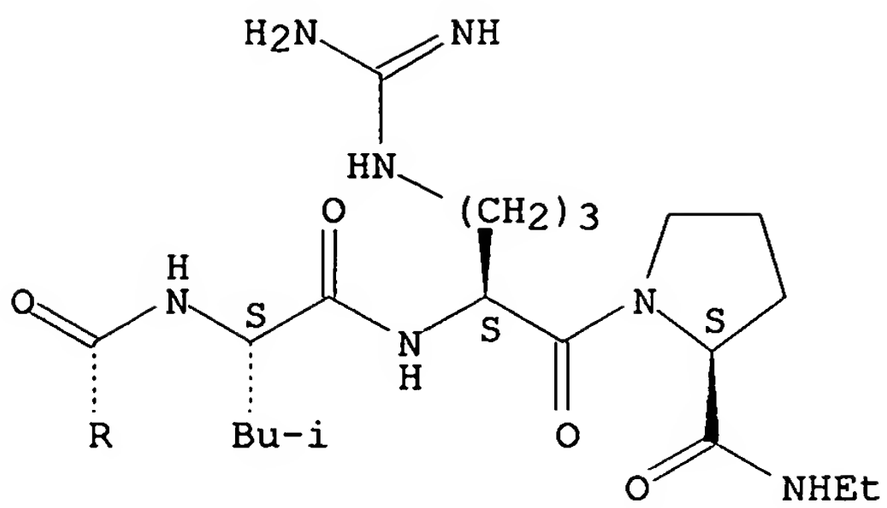
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 328089	A2	19890816	EP 1989-102207	19890209
	EP 328089	A3	19901128		
	R: ES, GR				
	WO 8907451	A1	19890824	WO 1989-US531	19890209
	W: JP, US				
	RW: BE, CH, DE, FR, GB, IT, NL, SE				
	JP 03503165	T2	19910718	JP 1989-502779	19890209
	EP 480918	A1	19920422	EP 1989-902991	19890209
	R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
	CA 1339679	A1	19980217	CA 1989-591046	19890209
PRAI	US 1988-154682	A	19880210		
	WO 1989-US531	W	19890209		

IT **125157-31-5P 125157-55-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as LHRH analog)
RN 125157-31-5 CAPLUS
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-seryl-L-tyrosyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



PAGE 2-A



RN 125157-55-3 CAPLUS

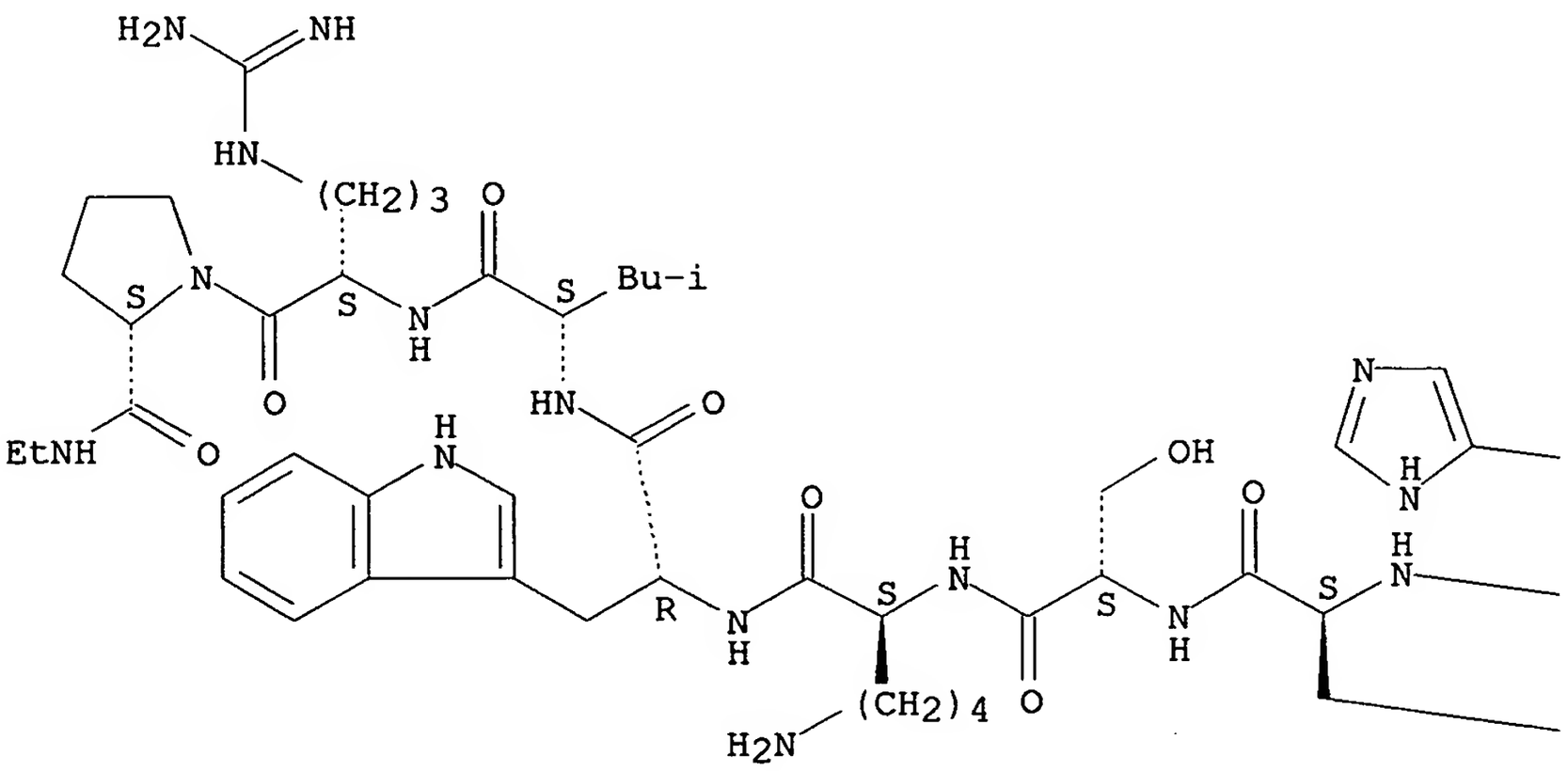
CN L-Prolinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-L-histidyl-L-tryptophyl-L-seryl-L-lysyl-D-tryptophyl-L-leucyl-L-arginyl-N-ethyl-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

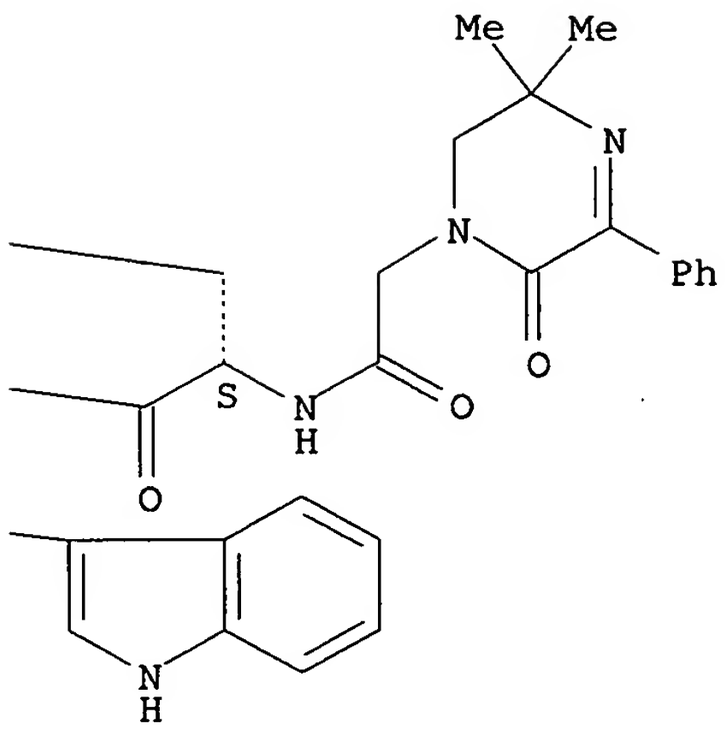
CM 1

CRN 125157-54-2
CMF C70 H95 N19 O11

Absolute stereochemistry.

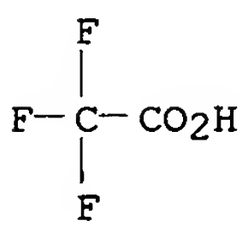
PAGE 1-A



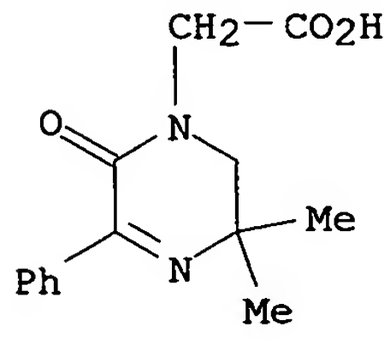


CM 2

CRN 76-05-1
CMF C2 H F3 O2



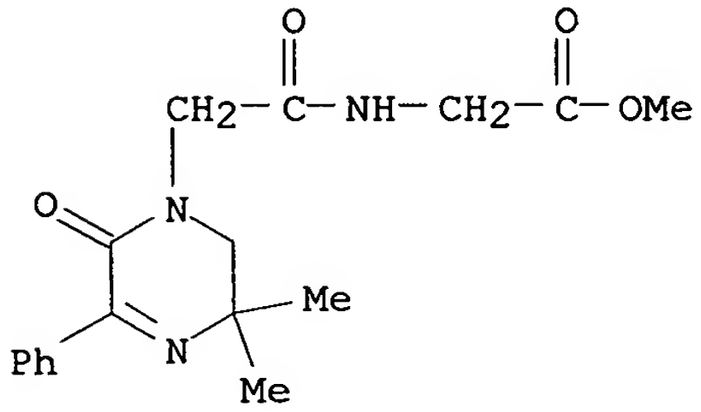
IT **110694-65-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of LHRH analogs)
RN 110694-65-0 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI)
(CA INDEX NAME)



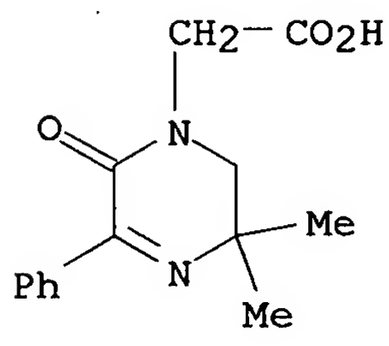
L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:598900 CAPLUS
DN 107:198900

10/634,713

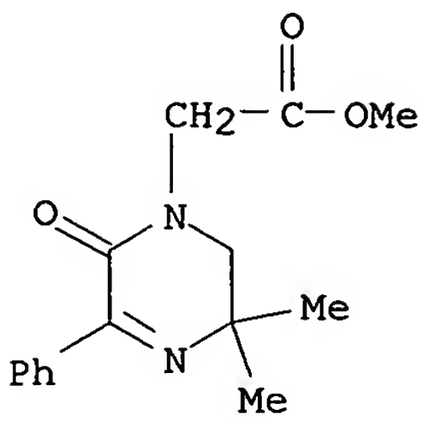
TI A heterocyclic analog of leucine-enkephalin
AU Carr, Albert A.; Dudley, Mark W.; Huber, Edward W.; Kane, John M.; Miller, Francis P.
CS Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA
SO Journal of Heterocyclic Chemistry (1987), 24(1), 239-41
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
OS CASREACT 107:198900
IT **110694-66-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and amidation with ethylamine)
RN 110694-66-1 CAPLUS
CN Glycine, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]-, methyl ester (9CI) (CA INDEX NAME)



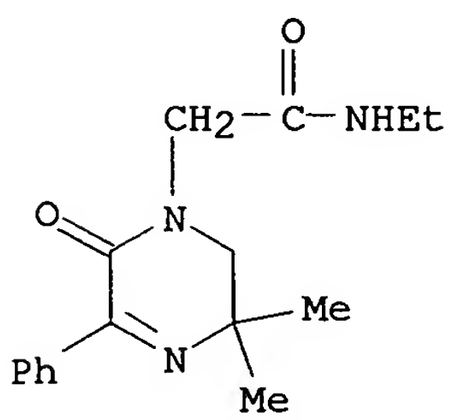
IT **110694-65-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and coupling with glycine Me ester and peptide amides)
RN 110694-65-0 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI) (CA INDEX NAME)



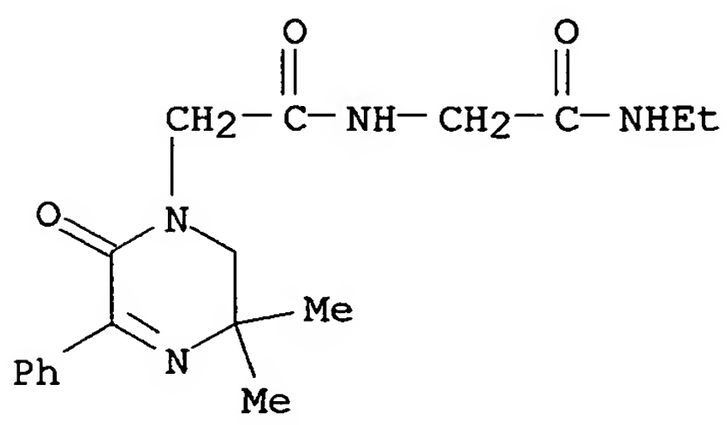
IT **110694-63-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and saponification of)
RN 110694-63-8 CAPLUS
CN 1(2H)-Pyrazineacetic acid, 5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-, methyl ester (9CI) (CA INDEX NAME)



IT **110694-64-9P 110694-67-2P 110694-68-3P**
110694-69-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 110694-64-9 CAPLUS
CN 1(2H)-Pyrazineacetamide, N-ethyl-5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-
(9CI) (CA INDEX NAME)

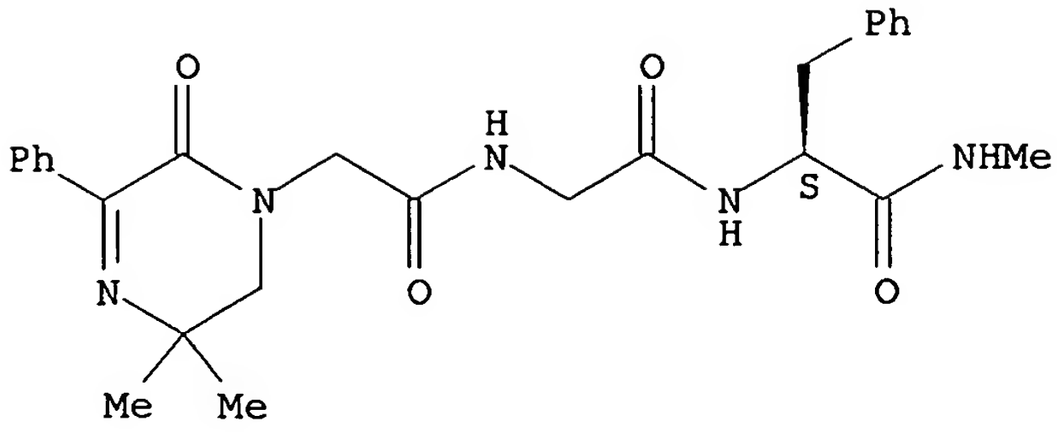


RN 110694-67-2 CAPLUS
CN 1(2H)-Pyrazineacetamide, N-[2-(ethylamino)-2-oxoethyl]-5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl- (9CI) (CA INDEX NAME)



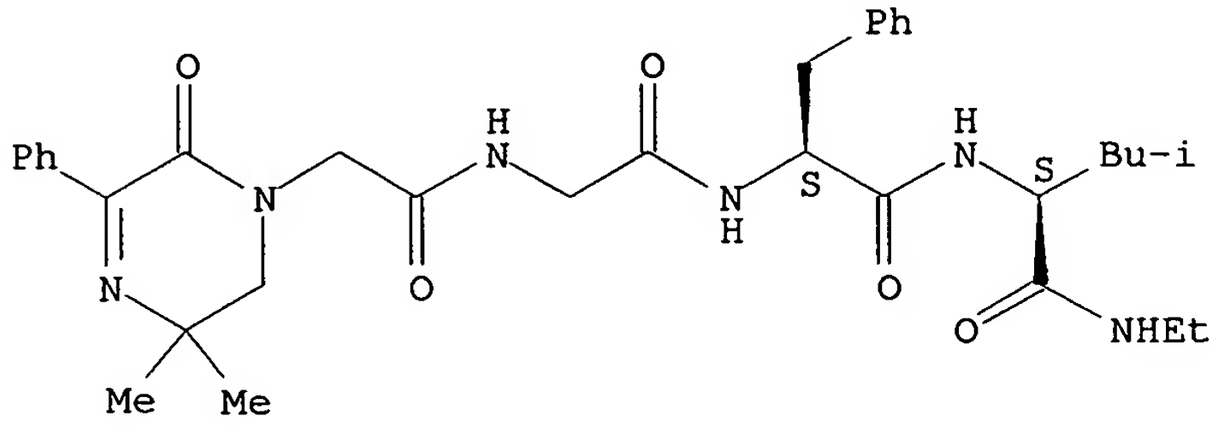
RN 110694-68-3 CAPLUS
CN L-Phenylalaninamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]glycyl-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 110694-69-4 CAPLUS
CN L-Leucinamide, N-[(5,6-dihydro-5,5-dimethyl-2-oxo-3-phenyl-1(2H)-pyrazinyl)acetyl]glycyl-L-phenylalanyl-N-ethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:198275 CAPLUS
DN 98:198275
TI Piperazinones and their use
IN Beyerle, Rudi; Bender, Heinz; Schindler, Ursula; Nitz, Rolf Eberhard; Martorana, Piero Anton
PA Cassella A.-G., Fed. Rep. Ger.
SO Ger. Offen., 41 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3132882	A1	19830303	DE 1981-3132882	19810820
	CA 1190227	A1	19850709	CA 1982-405637	19820621
	EP 72932	A2	19830302	EP 1982-106766	19820727
	EP 72932	A3	19840321		
	EP 72932	B1	19900117		
	R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
	AT 49596	E	19900215	AT 1982-106766	19820727
	DK 8203423	A	19830221	DK 1982-3423	19820730
	DK 154765	B	19881219		
	DK 154765	C	19890516		
	FI 8202698	A	19830221	FI 1982-2698	19820802
	FI 76325	B	19880630		
	FI 76325	C	19881010		
	NO 8202643	A	19830221	NO 1982-2643	19820802
	DD 206991	A5	19840215	DD 1982-242277	19820805
	IL 66566	A1	19851231	IL 1982-66566	19820818
	PL 139405	B1	19870131	PL 1982-237952	19820818

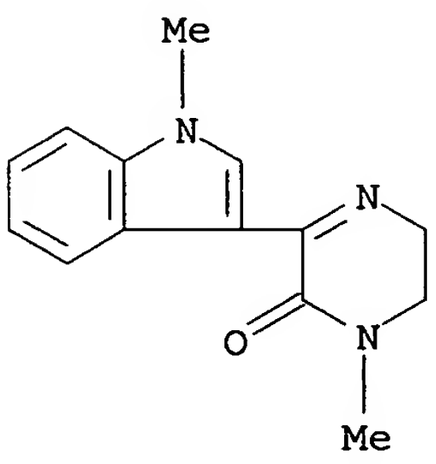
	AU 8287422	A1	19830224	AU 1982-87422	19820819
	AU 556064	B2	19861023		
	JP 58039673	A2	19830308	JP 1982-142738	19820819
	JP 04065069	B4	19921016		
	ES 515120	A1	19830501	ES 1982-515120	19820819
	ZA 8206031	A	19830727	ZA 1982-6031	19820819
	HU 29344	O	19840130	HU 1982-2696	19820819
	HU 190696	B	19861028		
	RO 85267	P	19840929	RO 1982-108482	19820819
	US 4598079	A	19860701	US 1984-610921	19840515
PRAI	DE 1981-3132882	A	19810820		
	EP 1982-106766	A	19820727		
	US 1982-408031	A1	19820813		

OS CASREACT 98:198275

IT **85607-67-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and borohydride reduction of)

RN 85607-67-6 CAPLUS

CN 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-(1-methyl-1H-indol-3-yl)- (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1982:455776 CAPLUS

DN 97:55776

TI A photochemical ring contraction of an imino lactam

AU Kleyer, Don L.; Koch, Tad H.

CS Dep. Chem., Univ. Colorado, Boulder, CO, 80309, USA

SO Journal of Organic Chemistry (1982), 47(16), 3145-8
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

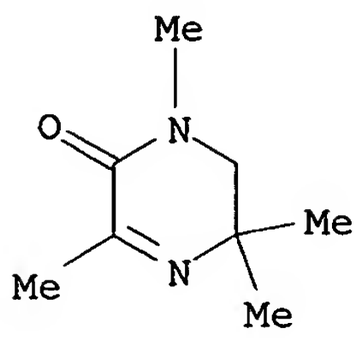
LA English

OS CASREACT 97:55776

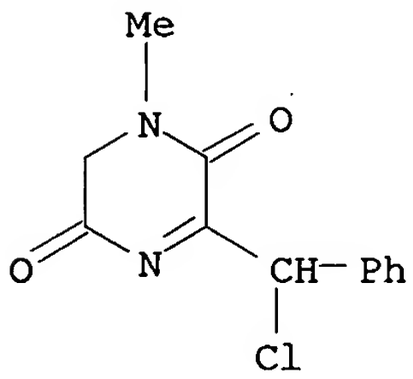
IT **82043-99-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photochem. contraction of)

RN 82043-99-0 CAPLUS

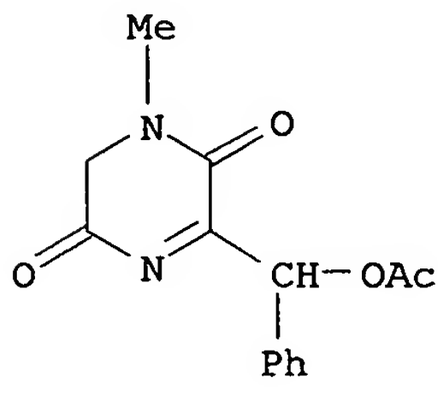
CN 2(1H)-Pyrazinone, 5,6-dihydro-1,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)



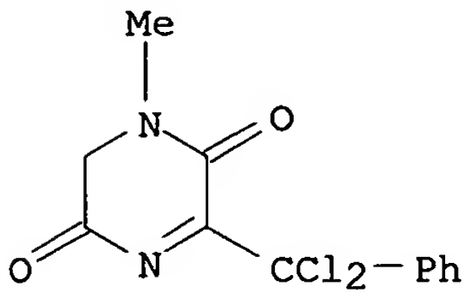
L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1976:180168 CAPLUS
DN 84:180168
TI Pyrazine chemistry. Part VIII. Oxidations involving 3-arylmethylenepiperazine-2,5-diones
AU Machin, Peter J.; Sammes, Peter G.
CS Chem. Dep., Imp. Coll., London, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1976), (6), 628-34
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 84:180168
IT **59552-64-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 59552-64-6 CAPLUS
CN 2,5-Pyrazinedione, 3-(chlorophenylmethyl)-1,6-dihydro-1-methyl- (9CI) (CA INDEX NAME)



IT **59552-66-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of)
RN 59552-66-8 CAPLUS
CN 2,5-Pyrazinedione, 3-[(acetyloxy)phenylmethyl]-1,6-dihydro-1-methyl- (9CI) (CA INDEX NAME)



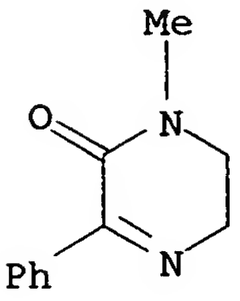
IT **59552-58-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59552-58-8 CAPLUS
CN 2,5-Pyrazinedione, 3-(dichlorophenylmethyl)-1,6-dihydro-1-methyl- (9CI)
(CA INDEX NAME)



L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1963:33446 CAPLUS
DN 58:33446
OREF 58:5700g-h,5701a-e
TI Substituted 5,6-dihydro-2(1H)-pyrazinones
IN Carr, Albert A., Jr.; Tilford, Charles H.; Kuhn, William L.
PA Richardson-Merrell, Inc.
SO 3 pp.
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3056784		19621002	US	19601003
DE 1197089			DE	
FR M2016			FR	
GB 980387			GB	
PRAI US		19601003		

IT **91350-29-7**, 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl-
(preparation of)
RN 91350-29-7 CAPLUS
CN 2(1H)-Pyrazinone, 5,6-dihydro-1-methyl-3-phenyl- (7CI, 9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	81.81	243.78

STN INTERNATIONAL LOGOFF AT 16:49:30 ON 18 DEC 2005